

Dillon Mitchell Baird

LEAD SOFTWARE ENGINEER

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Passionate software engineer, UI/UX engineer, systems architect, graphic designer, security researcher, consultant, with 17+ years of experience; adept in all stages of advanced software development and effective design. Knowledgeable in user interface, testing, and debugging processes. Able to effectively self-manage during independent projects and collaborate in a team setting. Committed to working as an efficient, positive team member while striving to utilize my knowledge and expertise for optimal engineering results.

** Open to remote/hybrid work though prefer in-office work when available; open to relocation domestically/internationally.*

EXPERIENCE

Inbrace (Swift Health Systems), Irvine, CA

Feb 2022 - Present

Lead Software Engineer

Responsible for development lifecycle of django/react web portal application, next.js public websites, backend python applications, serverless services, postgres database, RedShift data warehouse and internal WebAssembly-wrapped C++ CAD design software used by Inbrace employees and orthodontist service providers.

- Led several teams of software engineers in an Agile Methodology development process which includes daily stand-ups, presentations to stakeholders, reviews of code / database changes, system testing, defining functional requirements, coordinating and prioritizing activities, and tracking deliverables.
- Developed & maintained python/django application paired with a react frontend servicing orthodontic offices as well as internal "smile design" staff to facilitate treatment plans as well as the manufacturing process.
- Regularly provided UI/UX design feedback & mockups to improve the user experience of our platform, leading to positive feedback from providers and an increase in cases/sales.
- Migrated various public sites into Next.js to better align with the skills of our internal development teams, allowing the company to cut costs of a 3rd party vendor being utilized.
- Implemented various infrastructure and process upgrades such as overhauling CI/CD pipelines, and implementing suite of system logging and monitoring applications to quickly diagnose issues or outages, resulting in a streamlined team efficiency.
- Maintain regulatory compliance certification requirements for both myself as well as my teams.
- Interface with management/leadership team weekly in order to communicate current state of the development.
- Mentored engineers in better development practices as well as career development skills.

Lightstream (Truist Financial, formally Suntrust Bank / BB&T), San Diego, CA

Apr 2017 - Dec 2021

Senior Software Engineer, Vice President

As Senior Software Engineer and VP, my responsibilities mostly revolved around developing, maintaining, and supporting an online lending platform that facilitates more than \$30 million per month in transactions. As a UI/UX engineer, I take a personal interest and find passion in ensuring our customer experiences are accessible to the full spectrum of a user's abilities and as a result played a big part in Lightstream being awarded by JD Power & Associates for ranking highest among personal loan lenders in overall customer satisfaction.

- Developed, debugged, and helped others debug C#, JavaScript (Angular), HTML, and CSS code for internal/external applications.
- Led development team tasked with implementing Kentico CMS into our frontend public sites, assisting the team through various challenges and limitations.
- As ADA (Americans with Disabilities Act) Compliance subject-matter expert, I assembled a team that I trained and lead through a large restructuring of the existing frontend code base in order to meet compliance requirements.
- Assisted junior developers in the development/programming process and considered a 'subject matter expert' in various areas of the technology.
- Performed reporting and data analysis utilizing Microsoft SQL Server Database SSRS, and PowerBI.
- Participated in code reviews and assisted in establishing/encouraging software development best practices.
- Regularly participated in technical discussions around architecture, strategy, and development.
- Supported various systems and Web Services maintaining an almost 100% uptime SLA guarantee.
- Regularly communicate and produces creative solutions to help automate internal processes.
- Assisted in facilitating transition from TFS to git repository system.
- Worked closely with CTO in creating our "Innovation Lab", a special-projects team working on research & development along with quick POC applications intended to benefit the company/product.

KECO Inc, San Diego, CA

Oct 2015 - Jun 2017

Director of Systems & Support

Responsibilities ranged from establishing a customer support platform, develop/maintain Magento e-commerce site with 500+ SKUs and complex assemblies, overseeing all IT resources and infrastructure, to heavy involvement in R&D as well as designing custom PCB boards for equipment telemetry monitoring devices and more.

- Oversaw e-commerce strategy - including restructuring inventory system, custom integration with SAP Business One, implementation of Magento with multiple web-stores, and secure vendor portal.
- Facilitated collaboration with partner company; designing and producing embedded telemetry monitoring device with custom HMI for remote industrial equipment monitoring.
- Implemented company-wide infrastructure upgrade, including data center and on-premise equipment.
- Implemented a thin-client/network boot solution to minimize productivity downtime in manufacturing due to locations being prone to frequent hardware damage.
- Developed custom SAP B1 - Magento synchronization tool to link e-commerce site to our manufacturing/assembly facility.

Holonis Inc., San Diego, CA

Apr 2013 - Nov 2015

UI/UX Specialist | Senior Software Engineer | Systems Architect

My role at Holonis first began in UI/UX but quickly grew into a system architecture and full-stack development role. Developing the frontend in AngularJS and backend in Node.js with MongoDB and Algolia as the data service layer.

- Redeveloped web platform in new language (switching from ASP.NET/SQL to AngularJS/MongoDB) in order to establish a clear path for future development and expansion of engineering teams.
- Produced minimal/aesthetically pleasing UI designs to enhance user experience.
- Worked closely with our remote development team based in India, meeting nightly to prioritize work.

MarineSync, San Diego, CA

Apr 2012 - Apr 2013

Senior Software Engineer | IT Department Head

Web and application developer, my role included developing an online portal for customers to remotely monitor their vessel while managing monthly subscriptions and new site deployments.

- Designed & developed mobile/web application for existing remote vessel monitoring hardware.
- Collaborated/assisted with development of future hardware revisions.
- Produced content and design for all technical documentation for devices and software.

Skomar (ReadyLink Healthcare), Thousand Palms, CA

Feb 2011 - Apr 2012

Software Engineer, Graphic Designer, 3D Graphics Artist

Contracted to design and develop a jQuery Mobile based mobile application paired with a ASP.net backend, utilized to facilitate nurse staffing needs in hospitals and healthcare facilities. I also created a custom ROM Android-based device for our staffed nurses providing an encrypted communication channel that meets HIPAA compliance.

- Developed solution to enhance the management of a nurse staffing agency.
- Sourced mobile device hardware that meet HIPA compliance, developed custom Android OS ROM to tie into VOIP systems, encrypted communication channels, training, etc; Beta test was a success and was handed off to in-house development team.

PropsFx (Props Productions LLC), Cherry Valley, CA

Feb 2008 - Mar 2011

Software Engineer | Production Manager / Director of Lighting & Design

As Production Manager and Office Manager my responsibilities ranged from onboarding new customers, facilitating contracts, scheduling teams/crews/equipment/vendors for events of all sizes.

- Developed several internal applications utilized by clients, office staff and vendors, as well as designed/maintained website and e-commerce platform.
- NCLC Laser Repair Technician Certification acquired for operation/maintenance of lasers that were modified in-house to produce visible light and used for events.
- Regularly contracted by Department of Homeland Security to assist in producing training events for local agencies across California, requiring security clearance.

Miracle Springs Resort & Spa / Desert Hot Springs Spa Hotel, Desert Hot Springs, CA

Mar 2005 - Oct 2010

Software Engineer, Network Administrator, Help Desk, Systems Architect

Administered network, systems, servers (linux & windows) and applications; supporting 6,000+ devices/users across 5 properties. Internal applications were developed in PHP and supported by a MySQL database after migrating the company away from using MS Access.

Baird Productions

Jan 2005 - Present

Owner | Principal Engineer

As owner and principal engineer for more than 17 years, I've been helping clients of all sizes across many industries solve and achieve their development needs using the most elegant ways possible. Development of many projects utilizing a vast array of languages and technologies gave me an invaluable amount of hands-on experience that I apply almost daily at my main job.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, C# .NET, ASP, PHP, HTML, CSS (SCSS/SASS), VB

JS Frameworks: React, React Native, Vue, Angular, AngularJS, Node.js, Backbone, Next, Gatsby, Express

JS Libraries: Ionic, THREE.js, Lodash, Underscore, jQuery, jQueryMobile

Test Automation: Selenium, Jest, NUnit, Karma, Jasmine, Puppeteer

SQL Databases: MS SQL, Postgres, MySQL

NoSQL Databases: Mongo, Redis, Influx, DynamoDB, Elasticsearch

DataWarehouses: RedShift, Snowflake, BigQuery, Synapse

Serverless: AWS Lambda, Cloudflare Workers, Google Cloud Functions, StackPath, Azure Functions

Reporting: PowerBI, SQL Server Reporting Services (SSRS), Tableau

Monitoring: DataDog, NewRelic, Splunk, Dynatrace, Prometheus

Containerization / Virtualization: Docker, Kubernetes, LXC, VMWare ESXi, QEMU, XenServer

CI/CD Tools: TeamCity, Jenkins, Gitlab, Buddy, Octopus, Bitbucket Pipelines, Heroku CI

Project Management: Jira, Azure DevOps (TFS), YouTrack, Basecamp, Trello, Zoho Projects

Compliance: Banking, ADA, HIPPA, Patent

Spoken Languages: English (native), Spanish (basic)

Awards: National Champion in Public Forum Debate, Executional Excellence Award (Truist Financial)

Interests: Cybersecurity, Aerospace, Electrical Engineering, Accessibility, Industrial Design, Automation, Architecture, Human Rights

Volunteering: The Surfrider Foundation, Boys & Girls Clubs of America, Project Cognition

PROJECTS

"MUTANTdragon", SpaceX Dragon UI Recreation

Recreation of the touchscreen user interface (UI) of SpaceX's Crew Dragon spacecraft in just 60 days along with hardware simulator test bench. The project was a personal challenge for me to improve my skills and potentially impress the team at SpaceX. Can be seen at <https://MUTANTdragon.space/>

Software Stack: Vue.js, THREE.js, LIT Element, WebAssembly, Electron, Redis, Docker

"M/Y Antigua", Automated Motor Yacht

Custom embedded control/monitoring/automation hardware/software solution created for a 65-foot yacht I've lived aboard since purchasing in early-2019, controlling all systems and aspects of the vessel. Navigation/autopilot control, lighting, safety and even amateur oceanography; are all driven by open-source hardware, self-designed PCBs, or hardware sourced from oversea suppliers (display panels, sensors, etc).

Software Stack: Node.js, Angular, Python, & InfluxDB. Containerized and hosted on a Kubernetes cluster.

"Das Boat", Low-Cost AUV/ROV

Currently working on design of a low-cost, modular AUV (Autonomous Underwater Vehicle) equipped with the necessary sensors (sonar, cameras, hydrophone, ph, salinity, etc) for amateur underwater charting and exploration.

Though still early in it's planning phase, I have high hope for it's potential and plan to release under an open source license.

"Project Cognition", Non-Profit

Originally starting as a way for me to give back to my local community, Project Cognition has grown into a small team of hard working individuals dedicated to making an impact; helping educate, empower and inspire many in need across the world through technology.

Initial efforts have been focused on bringing supplies to coastal communities in need and assisting establish business/export relations with local artisans located in remote villages. Currently pursuing our 501C3 status so we can expand our reach and our potential to make a difference.