

Brian LeGros

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Software professional working in the industries of healthcare, network services, banking, marketing, hospitality, and finance over the last 26 years. Focused on finding a company where I can participate in agile software engineering practices and be challenged by new problem domains.

Skills

- **Programming Languages:** Typescript, JavaScript, Java, PHP, C#, Coldfusion, Bash
- **Platforms / Standards / Libraries:** GraphQL, Apollo Federation, OAuth, WebAuthn, REST, NodeJS, React, React Native, RxJS, SIP, Spring, Hibernate, ASP.NET MVC, AngularJS
- **Testing:** Vitest, Jest, Mocha, Chai, Sinon, React Testing Library, Enzyme, k6, Selenium/Webdriver, JUnit, JMock, DBUnit, HTMLUnit, PHPUnit
- **DevOps:** Docker, docker-compose, GitHub Actions, k8s, Terraform, Webpack, Turbopack, Maven, Ant, Ivy, Phing, Composer, Gradle, Make, Jenkins, Vagrant, Puppet, Fastlane
- **Databases:** PostgreSQL, Redis, Azure Table Storage, MySQL, MSSQL, Oracle, MongoDB, CouchDB
- **Messaging:** RabbitMQ, Azure System Bus, Nats
- **Cloud:** Azure
- **AI:** Claude, GPT, Gemini, OpenCode, ClaudeCode

Experience

Senior Engineering Specialist, R&D -- Voalte / Hillrom / Baxter International

2014 - Present

- Launched a new product to production for a mobile and web-based application utilizing serverless technologies in the **Azure** cloud. Responsible for all architecture and design decisions. Provided technical leadership for an engineering team of 15-20 developers and testers. Using **Docker**, **NodeJS**, **React**, **PostgreSQL**, **Redis**, **GitHub Actions**, and a multitude of Azure services.
- Leading multiple efforts to develop a middleware layer for a diverse set of products acquired through M&A to share functionality and create a uniform mechanism for interoperation. Responsible for guiding teams on the new communication standard based on protocols such as **HTTP**, **AMQP**, **SIP**, and **WebSockets**. Supporting services written for **NodeJS** and **.NET** platforms using **GraphQL** and **Apollo Federation** as an application protocol.
- Lead web engineer for customer facing web products using **React**, **Preact**, **AngularJS**, **Apollo**, **Babel**, **Tailwind**, **PostCSS**, **LESS**, **SASS**, **Webpack**, **Turbopack**, **Vite**, **Gulp**, and **NodeJS**.
- Lead engineer on customer facing SDK written in **TypeScript/JavaScript** for use in the browser and NodeJS
- Shepherded the introduction of practical AI tooling into projects using tools such as **OpenCode**, **Claude**, and **Docker**. Focused on human-on-the-loop style development utilizing skill development, memory tools, and **MCP** integrations that helped to simplify developer workflows and increase productivity.
- Spearheaded DevOps initiatives to provide continuous integration and delivery pipelines for multiple products and services.
- Developed in-house load/stress testing tools for proprietary protocols as well as leading an initiative to create load test coverage for multiple customer facing services using **k6**.
- Primary maintainer for wikis for multiple teams documenting standards, best practices, how-to guides, policies, and architectural documentation.
- R&D community lead for the web development group for the last 14 years. Responsible for presentations, organization of forums, and bringing external speakers to the group on various topics.

- Led the technical aspects of development for the company's customer portal, StrikeTracker, using **AngularJS**, **NodeJS**, **PHP**, and **MySQL** as well as **Java**, **Flex** in earlier revisions.
- Led the technical aspects of product development for the company's RESTful web service API using **Java** and **PHP**.
- Administered a **MySQL** database used to store hundreds of millions of records of time-series network usage samples and various aggregations supporting customer portal analytics and billing. Developed strategies for data retention, data partitioning, and indexing.
- Designed, created, and maintained multiple DevOps processes including automated builds and deployments via continuous integration and delivery pipelines using **Grunt**, **Phing**, **Maven**, **Fabric**, **Make**, **Vagrant**, **Puppet**, and **Jenkins** for applications written in Java, Ruby, and C++.
- Created and nurtured a series of automated test suites to address the concerns of unit, integration, and functional testing using **Mocha**, **Karma**, **Selenium Webdriver**, **PHPUnit**, **JUnit**, **DBUnit**, **Spring Test**, and **HTMLUnit**.
- Made large strides to bring a structured, measurable approach to performance testing for various HTTP and FTP-based cloud products using **JMeter**.
- Familiar with socket-based programming, as well as asynchronous and threaded process development. Developed a custom client library to support the NNTP protocol as well as background jobs to precompute aggregate analytics on large datasets.
- Primary maintainer for the product team's wiki documenting standards, best practices, how-to guides, and cross team policies.

- Aided in the technical organization for the newly formed Web Systems department, focusing on the creation of standards and practices for developers as well as selecting the technology stack to work in cooperation with existing **.NET** applications.
- Created and maintained an automated functional test suite, using **Selenium**, to validate custom vendor builds of the online banking platform, reducing response time from 2 weeks to 3 days.
- Created and maintained a unified reporting application for the online banking system using **.NET** with **C#**, **ASP.NET MVC**, **jQuery**, **LINQ**, and **iBatis.NET**.
- Prototyped a custom monitoring application for the online banking system using **.NET** with **C#**, **WCF**, **Autofac**, **WMI**, and **LINQ**.
- Received training to work as a developer on the Corillian Voyager online banking platform including the Intelligent Authentication component.

- Aided in the creation, maintenance, and extension of over 30 web applications for internal and external business units utilizing **ColdFusion**, **Java**, **Flex**, and **Oracle**.
- Implemented DevOps workflows to automated build, test, and deployment workflows.
- Led a major refactoring effort to improve application authentication, authorization, and auditing across multiple teams.
- Responsible for training junior developers as well as developing and executing an architectural and code review process for multiple software teams.
- Led developers in documenting coding standards and best practices as well as procedures to keep documentation up-to-date and relevant.
- Introduced a technical one-on-one review process to gather technical feedback and perspective from developers to help management set technical direction.

Division Lead / Application Developer -- NextWeb Media

2005 - 2006

- Aided in the development of over 25 web applications focused on marketing and advertising.
- Migrated and consolidated the code base for 21 applications into 10 through the introduction of a shared object model representing the problem domain and the optimization of major portions of each application's code base.
- Improved partner integration by creating a standard service API adding features such as real-time messaging.
- Utilized **ColdFusion**, **Java**, and **MSSQL** to create, enhance, and maintain the company's web applications.
- Led 2 - 3 person development teams on 10 project initiatives from inception to completion.

Web Applications Manager -- Foreign Currency Exchange Corp. / Bank of Ireland Group 2000 - 2005

- Utilized object oriented practices to design and construct an international, enterprise web-based portal used for recording foreign currency transactions and reporting upon them.
- Developed multiple applications using **ColdFusion**, **Java**, **C#**, **ASP.NET**, and **MSSQL** for both customer and in-house use.
- Created and maintained over 50 projects from inception to completion.
- Acted in the role of lead developer, regularly setting technology direction for all software development at the company for up to 7 developers at any one time.
- Helped to grow a 3 person development staff to an 11 person department over 4 years.

Education

University of Central Florida -- Orlando, Florida

Graduated 2001

- Bachelor of Science, **Computer Science**
- Minor, **Management of Information Systems**

Professional Activities

- Board member for the Brevard Symphony Orchestra working on AI data analysis and event engagement projects.
- Providing AI training for small businesses in the Brevard County area
- Learning about distributed protocols such as Hyper/DAT and AT and their applications as well as distributed identity management.
- Presenting on topics related to web development, DevOps for developers, testing strategies, and OSS projects at various user groups (corporate and community-based) as well as government / private institutions.
- Past contributor to OSS projects such as Fluint, FlexUnit, flex-mojos, and mockolate.
- As a hobby, I enjoy learning about home automation using Home Assistant with protocols like ZWave, Zigbee, Matter, Thread, etc.

References

- Available upon request.