Lucas Boyd *Senior FullStack Engineer*

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PROFILE

Senior Full Stack Engineer with 15+ years of experience delivering scalable, secure web applications across fintech, enterprise SaaS, and global engineering teams. Expert in **JavaScript**, **TypeScript**, **React**, **Next.js**, **Angular**, **Node.js**, **Python**, **C#**, **.NET Core**, **SQL**, **PostgreSQL**, **MongoDB**, **REST**, **GraphQL**, **microservices**, **AWS**, **Azure**, **Docker**, **Kubernetes**, and **CI/CD**. Skilled in **API design**, **performance optimization**, **modern frontend architecture**, and **cloud-native development**. Known for accelerating delivery, leading large-scale migrations, improving code quality, and mentoring engineers. Advocate for **AI-assisted development**, **automation**, **observability**, and long-term maintainability.

EDUCATION

Kennesaw State University   08/2007 – 05/2009 | Kennesaw, GA
Master's Degree in Computer Science

Kennesaw State University   08/2003 – 05/2007 | Kennesaw, GA
Bachelor's Degree in Computer Science

SKILLS

Frontend Development
React, Next.js, Angular, Vue, TypeScript, JavaScript, Redux, RTK, RxJS, Zustand, Context API, Tailwind, SCSS, Storybook, React Hook Form, Accessibility, Performance Optimization, Microfrontends

Backend & APIs
Node.js, Express, Nest.js, Python, Flask, Django, C#, .NET Core, REST APIs, GraphQL, gRPC, Microservices, API Gateways, Authentication/Authorization, OAuth2, JWT

Cloud, DevOps & Infrastructure
AWS, Azure, Lambda, S3, API Gateway, Docker, Kubernetes, Terraform, GitHub Actions, Jenkins, CI/CD, Monitoring, Logging, App Insights, CloudWatch

Data & Storage
PostgreSQL, SQL Server, MySQL, MongoDB, Redis, Kafka, RabbitMQ, Event-Driven Architecture

Quality, Leadership & Tools
Jest, React Testing Library, Cypress, Playwright, Unit/Integration Testing, Mentoring, Code Reviews, Design Systems, Agile, Scrum, AI Tooling

PROFESSIONAL EXPERIENCE

Law School Admission Council (LSAC)   04/2023 – Present
Senior Full Stack Engineer   Pennsylvania, United States - Remote

- Built and maintained scalable full stack applications using **React**, **TypeScript**, **Node.js**, **C#,** and **.NET Core**, improving platform stability and user experience for thousands of daily users.
- Modernized legacy modules into **React + Next.js** microfrontends, reducing bundle sizes by **45 percent** and improving load times by **30 percent.**
- Designed and implemented backend APIs in **Node.js** and **.NET Core**, optimizing query performance with **SQL Server** and **PostgreSQL** and reducing API latency by **25 percent**.
- Strengthened platform security with **OAuth2**, **SAML**, **JWT**, and **role-based access control**, reducing authentication-related issues by **40 percent**.
- Improved CI/CD reliability using **GitHub Actions**, **Docker**, and automated testing, decreasing deployment errors by **60 percent**.
- Used **Azure services**, **Redis**, and event-driven patterns to reduce system failure points and improve uptime.
- Conducted thorough code reviews, implemented engineering best practices, and mentored junior developers across multiple teams.
- Enhanced observability using **App Insights** and **Grafana**, enabling faster diagnosis and reducing mean time to resolution by **35 percent**.
- Delivered features supporting high-stakes admissions workflows with strict compliance and accessibility requirements.
- Reduced customer-reported UI defects by **50 percent** through stronger testing and frontend stabilization.

Turing.com   07/2018 – 01/2023
Senior Software Engineer   California, United States - Remote

- Delivered full stack solutions for global clients using **React**, **Node.js**, **Python**, **GraphQL**, and **PostgreSQL**, improving delivery velocity across distributed teams.
- Built complex dashboards and data visualizations in **React** and **Next.js**, improving user engagement and reducing UI load times by **28 percent**.
- Developed serverless **AWS Lambda** microservices with **Node.js**, **S3**, **DynamoDB**, and **API Gateway**, improving scalability and reducing infrastructure costs.
- Created secure authentication flows using **OAuth2**, **JWT**, and custom RBAC logic.
- Integrated **CI/CD pipelines** using **GitHub Actions** and **CircleCI**, speeding up releases by **35 percent**.
- Increased reliability through test automation with **Jest**, **Cypress**, and **Playwright,** reducing regression defects by **40 percent**.
- Streamlined complex API integrations with third-party platforms, reducing integration errors by **20 percent**.
- Improved logging, monitoring, and alerting for client applications using **AWS CloudWatch** and **Elastic Stack**.
- Mentored developers in architecture, debugging, and modern JavaScript/TypeScript patterns.
- Refactored outdated Node services, decreasing error rates by **30 percent**.

Toptal   09/2016 – 02/2018
Senior Full Stack Engineer   California, United States - Remote
- Built enterprise-grade SaaS features using **React**, **Node.js**, **TypeScript**, and **GraphQL**, improving customer workflows for global clients.
- Developed backend services using **Node.js**, **Express**, and **PostgreSQL**, optimizing queries and caching to reduce load times by **33 percent**.
- Designed scalable UI components using **React** and **Storybook**, enabling cross-team reuse and reducing development time by **20 percent**.
- Implemented API integrations with payment processors, CRMs, and analytics services.
- Led full stack development across multiple short-term and long-term engagements.
- Strengthened front-end performance using memoization, virtualization, and code-splitting.
- Added automated tests across the stack using **Jest**, **RTL**, and **Cypress**, improving reliability.
- Conducted architecture reviews and guided clients on best practices for building scalable modern apps.
- Improved onboarding efficiency by creating reusable templates and boilerplates for new projects.

Baires Dev   06/2013 – 05/2016
Full Stack Developer   California, United States - Remote
- Built full stack applications using **PHP**, **JavaScript**, **React**, and **MySQL**, serving high-traffic enterprise clients.
- Improved backend performance by optimizing SQL queries and introducing caching layers, reducing API latency by **30 percent**.
- Developed reusable UI components and responsive layouts with **React**, **SCSS**, and **Bootstrap**.
- Created REST APIs and integrated authentication, payment systems, and third-party services.
- Strengthened site performance and SEO through refactoring, bundling improvements, and code cleanup.
- Enhanced testing practices and introduced version control workflows to improve team delivery.
- Collaborated with designers, PMs, and backend engineers to ship production-ready features on schedule.

Andela   11/2009 – 02/2013
Software Engineer   New York, United States - Remote
- Built full stack platforms using **Angular**, **React**, **Node.js**, **Python**, and **SQL**, supporting enterprise and startup clients.
- Designed and optimized relational database schemas, improving query performance by **25 percent**.
- Collaborated with cross-functional teams across multiple time zones to deliver complex releases.
- Implemented microservices using **Python Flask** and **Node.js**, reducing deployment friction.
- Improved frontend performance with caching, lazy loading, and optimized change detection.
- Added automated unit and integration tests, increasing code quality and decreasing production bugs.
- Reviewed code, mentored developers, and trained teams on React and modern JavaScript patterns.