

# Lucas Boyd *Senior Software Engineer*

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Experienced software engineer with over 15 years of experience designing, developing, and deploying scalable web applications across **EdTech**, **FinTech**, and **SaaS** industries. Skilled in **React**, **Node.js**, and **.NET Core** with hands-on expertise in **AWS** and **Azure** cloud platforms. Strong background in **microservices architecture**, **RESTful APIs**, and **CI/CD automation**. Passionate about delivering **secure**, **high-performance** solutions and leveraging **AI-driven tools** to optimize development workflows and product scalability.

## 🧠 Skills

### Languages

JavaScript, TypeScript, Python, Java, C#, SQL, Go

### Backend Development & APIs:

Node.js, Express.js, .NET Core, Java Spring Boot, GraphQL, RESTful APIs, gRPC, Microservices Architecture

### Databases & Messaging:

PostgreSQL, SQL Server, MySQL, MongoDB, Redis, Kafka, RabbitMQ

### Testing & Quality Assurance:

Jest, Mocha, React Testing Library, Cypress, Playwright, Postman, xUnit, Integration Testing, Unit Testing, Code Reviews

### Frontend Development:

React.js, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Material UI, Angular

### Cloud & DevOps:

AWS (EKS, Lambda, S3, CloudFront), Azure (App Services, Key Vault, Service Bus), Google Cloud Platform (GCP), Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, CI/CD Pipelines, Infrastructure as Code (IaC)

### AI & Data Tools:

OpenAI API, Hugging Face, Pandas, NumPy, Power BI, Tableau, Data Pipelines (ETL), Real-Time Analytics

### Version Control & Collaboration:

Git, GitHub, GitLab, Jira, Confluence, Slack, Agile/Scrum, Kanban

## 📁 Professional Experience

### Software Engineer

2021 – Present

*Law School Admission Council (LSAC)*

Pennsylvania, United States

- Designed and developed scalable web applications for LSAC's digital assessment and registration platform, improving reliability, scalability, and overall user experience.
- Implemented RESTful APIs and backend services using **Java Spring Boot** and **Node.js**, enabling seamless data exchange across distributed **microservices**.
- Built and deployed containerized applications on **AWS EKS** using **Docker** and **Kubernetes**, increasing system uptime and fault tolerance.
- Automated CI/CD pipelines with **Jenkins** and **GitHub Actions**, reducing deployment time by 40% and minimizing manual errors.

- Collaborated with cross-functional Agile teams to deliver high-quality features biweekly, ensuring code quality and test coverage.
- Integrated **OpenAI APIs** to streamline documentation and automate code review workflows, boosting team productivity.
- Optimized application performance and caching strategies using **Redis** and **Application Insights** for real-time monitoring.

## Senior Software Engineer

03/2016 – 05/2021

Turing.com

California, United States

- Led a six-member remote team to develop and scale an **e-learning SaaS platform** serving over 200K active users.
- Refactored a legacy **.NET monolith** into **Spring Boot microservices** using **Docker**, improving maintainability and performance.
- Developed responsive frontends using **React.js** and integrated **Node.js/Express** APIs for seamless user interaction and synchronization.
- Migrated infrastructure to **AWS** and implemented **Infrastructure as Code (Terraform)**, reducing deployment errors by 35%.
- Established automated build, test, and deployment pipelines, ensuring stable and repeatable releases.
- Coordinated Agile sprint planning and retrospectives, aligning distributed teams toward timely and high-quality feature delivery.

## Software Engineer

02/2012 – 02/2016

Toptal

California, United States


- Designed and implemented **financial analytics tools** using **Python** and **Java**, supporting real-time reporting for enterprise clients.
- Built optimized **ETL pipelines** handling over 10M daily transactions with **PostgreSQL** and **SQL Server**, ensuring data integrity and performance.
- Created interactive **Power BI** and **Tableau dashboards** to visualize financial KPIs, improving decision-making speed.
- Automated CI/CD pipelines using **Jenkins** and **GitLab CI**, accelerating development and deployment cycles.
- Partnered with data science teams to enhance ML model deployment pipelines and anomaly detection using **Python** and **NumPy**.

## Software Developer

01/2009 – 01/2012

Andela

New York, United States

- Built and maintained internal **CRM** and **workflow automation tools** with **C#**, **ASP.NET** , and **SQL Server**, increasing team efficiency by 25%.
- Designed and integrated **REST APIs** and automated reports with **SSIS**, enabling better data visibility across departments.
- Led peer code reviews, implemented **unit testing frameworks**, and enforced best practices for maintainable, high-quality code.
- Collaborated in Agile sprints using **Jira** and **Confluence** to ensure transparency and predictable delivery.

## Junior Developer

06/2008 – 12/2008

Baires Dev

California, United States

- Assisted in developing and maintaining web applications using **Java**, **HTML/CSS**, and **MySQL**, ensuring code reliability and responsiveness.
- Supported debugging and performance optimization efforts, improving load times and stability.

- Contributed to testing scripts and documentation to support onboarding and internal knowledge sharing.

## Education

### **Master of Science in Software Engineering**

*Strayer University, Washington, D.C.*

08/2012 – 05/2016

### **Bachelor of Science in Computer Science**

*Temple University, Philadelphia, PA*

08/2003 – 05/2007