

# Keshav Mehta

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Software Engineer specializing in backend and data systems, passionate about designing scalable data pipelines, database architectures, and cloud-driven automation solutions for engineering intelligence.

## Education

### University of California, Irvine

Master of Computer Science (3.82/4.00)

Irvine, CA

Sept 2025 – Dec 2026

### California State University – Long Beach

Bachelor of Science in Computer Science (3.88/4.00)

Long Beach, CA

Jan 2020 – May 2024

## Technical Skills

**Programming & Automation:** Python, C++, Node.js, Java, SQL, Bash, REST API Security.

**Backend & Cloud:** Node.js, Express.js, Spring Boot, Django, AWS (Lambda, API Gateway, DynamoDB), Docker, Kubernetes, CI/CD pipelines.

**Data Systems & Databases:** PostgreSQL, MySQL, MongoDB, Redis, ORM tools (Sequelize, Mongoose, Hibernate).

**Security & Compliance:** IAM, TLS/SSL, OAuth2, Access Control Policies, Vulnerability Assessment

**Cloud & Infrastructure:** AWS (Lambda, API Gateway, IAM, DynamoDB), Docker, Jenkins CI/CD

**Tools:** Wireshark, Postman, GitHub Actions, Linux, Insomnia

## Professional Experience

### Android Developer Intern

AaronBux Wealth Management Inc.

Jan 2025 – Jul 2025

Remote (office: Washington, D.C.)

- **Designed and deployed secure, serverless microservices** using AWS Lambda, API Gateway, and DynamoDB with IAM-restricted endpoints.
- **Collaborated on CI/CD pipelines** (Jenkins) to improve deployment reliability and ensure controlled release environments.
- **Developed backend authentication and caching APIs** with access validation, **reducing load time by 30%**.
- **Optimized Android UI** rendering with Jetpack Compose, achieving improvement in frame rendering and reduced view load times, while maintaining code scalability and modularity.
- **Built frontend features like dashboards**, stock analysis views, and portfolio summaries by integrating secure backend APIs with authentication and caching, reducing load times by 30%.

### Full Stack Engineer

The Donovan's Venom Inc

May 2024 – Jan 2025

Remote (office: Atlanta, GA)

- **Engineered a full-stack music learning platform** using Azure, Next.JS, and Elysia delivering real-time feedbacks, interactive virtual instruments, and progress tracking board.
- **Achieved secure scalability for 2,000+ active users** by deploying **JWT/OAuth2 authentication** across microservices using **Docker and Kubernetes**, reducing unauthorized access.
- **Designed and deployed PostgreSQL schemas and APIs** to manage user profiles, course data, and learning activity, **reducing query latency by 40%** through optimized indexing and caching.
- **Crafted responsive, reusable UI components** in React ensuring compatibility across 90%+ of desktop and mobile devices.
- **Owned the full feature development cycle** from design to deployment, delivering 15+ backend features and improving build and deployment efficiency by 20%

## Projects

### Maze Navigation Agent (Python, NumPy, Matplotlib, Reinforcement Learning)

Sept 2025 – Dec 2025

- Implemented a  $Q(\lambda)$  RL maze-navigation agent with eligibility traces, achieving near-optimal paths and 100% success against BFS baselines.
- Designed a scalable training, benchmarking, and visualization pipeline to evaluate learning dynamics and performance.

### Shadow Network Ethical Evil Twin Attack Simulation (Python, HTML, CSS)

Sept 2022 – Dec 2022

- Built a controlled wireless attack environment to demonstrate network vulnerabilities and defensive countermeasures.
- Implemented ethical data collection and logging with clear disclosure and research intent.

### Keylogger & System Tracker (Python)

Dec 2023 – Feb 2024

- Developed a system-monitoring prototype to detect anomalous activity and unauthorized access attempts.
- Automated incident alerts via SMTP and logging mechanisms to track user input and hardware interaction events.

## Certification

- [IBM: Artificial Intelligence Fundamentals](#)