Kruthi Hosamane

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EDUCATION

M.S. Computer Software Engineering Dec 2025
Arizona State University, Tempe, AZ 3.82 GPA
Relevant Coursework: Advance Data Structures and Algorithms, Software Verification Validation and Testing, Software Security, Information Assurance and Security, Foundation of Software Engineering

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C/C++, Dart
Front-End: HTML, CSS, Flask, React.js, Bootstrap, Flutter, Tailwind
Tools, Databases, and Technologies: Node.js, Express.js, PostgreSQL, MongoDB, Git, Spring Boot, Restful APIs, Mockito, Junit, Postman, Spring MVC, iBatis, MyBatis, Hibernate, Jira, Docker, AWS, MagicPatterns, Cursor

PROFESSIONAL EXPERIENCE

Instructional Aide | *DBMS and Engineering Secure Software Systems* | Arizona State University Aug 2024 – May 2025

- Supported curriculum delivery in **DBMS** and security topics like **normalization**, **indexing**, and **threat modeling**.
- Led labs for **80+** students, simplifying databases and secure development concepts with real-world examples.
- Guided hands-on work with **PostgreSQL**, **MySQL**, **Docker**, and **ERD tool**s for schema design and secure coding.
- Graded projects with focus on clarity, performance, data integrity, and security compliance.

Software Developer | *SpringBoot, Java, Maven, React* | Xmplar Management Solutions Aug 2022 – Dec 2023

- Developed and maintained **RESTful APIs** using **Spring Boot**, optimizing performance and scalability, reducing downtime through root-cause debugging, and improving load handling—resulting in a **15%** faster response time.
- Streamlined CI/CD with **Jenkins**, automating builds via **Maven** and **Gradle**, boosting deployment efficiency by 30%.
- Optimized **PostgreSQL** queries with **indexing** and **caching**, cutting query time by 40% and boosting performance.
- Executed **JUnit**, **TestNG**, **Mockito and Postman** tests, lowering production bugs by **30%** and elevating stability.
- Migrated legacy **ORM** layer from **iBatis** to **MyBatis**, increasing maintainability and reducing future development time by 40%, yielding long-term technical debt savings of nearly **$7,500** annually

Fullstack Developer Intern | *Flutter, React, Node.js*| Xmplar Management Solutions Dec 2021 – Jun 2022

- Integrated **RESTful APIs** and handled **JSON** serialization for seamless backend connectivity and dynamic UI updates.
- Structured and implemented an engaging **Flutter** UI, improving user experience and increasing app retention by **20%**.
- Conducted widget testing and resolved UI bugs, increasing interface stability and reducing crash reports by **35%**.
- Collaborated in an **Agile team** to deliver full-stack functionality using **React.js, Node.js,** and **MongoDB**, ensuring a smooth and responsive user experience.
- Built modern SPAs using React Router, Axios, and **Tailwind** for efficient routing and data handling.
- Deployed app to **AWS (EC2, S3)** with **CI/CD** via GitHub Actions, configuring IAM and CloudWatch to achieve 99% uptime and cut deployment time by 50%.

PROJECTS

Career Mentorship Platform | *React, Node.js, Express, MongoDB, JWT* July 2025 – Present

- Building a MERN-based mentorship platform that supports mentor registration, admin verification, and services like resume reviews, interview preparation, LinkedIn optimization, and referrals.
- Prototyped user flows and UI components using **Magic Patterns**, enabling faster design-to-development handoff.
- Designing RESTful APIs, structuring backend schemas, and integrating dynamic frontend components using **Node.js, Express, MongoDB, and React.js.**
- Incorporating **Cursor** into the development workflow to accelerate coding and maintain clean, scalable architecture.

Machine Learning - Driven Musical Chord Detection | Python, Pandas, NumPy, MySQL Jan 2022 – Jun 2022

- Analyzed chord patterns using Python and MySQL to extract insights grounded in music theory, leveraging K-Nearest Neighbors (KNN) and Random Forest algorithms for classification.
- Processed and cleaned diverse musical datasets using pandas and NumPy, training models that achieved **96% accuracy** through effective feature engineering and algorithm tuning.