

Aakash Kulkarni

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EDUCATION

Oregon State University, Corvallis <i>Master's in Computer Science</i> Relevant Courses: Software Engineering Methodologies, Software Evolution and Maintenance, Mobile Application Development, Parallel Programming, Database Management	Sept 2022 – March 2025 GPA: 3.91/4.0
Jawaharlal Nehru Technological University, Hyderabad <i>Bachelor's in Computer Science</i> Relevant Courses: Data Structures, Operating Systems, Database Management Systems, Computer Networks	Jul 2018 – Aug 2022 GPA: 7.25/10.0

EXPERIENCE

Graduate Research Assistant <i>College of Engineering — Oregon State University</i> <ul style="list-style-type: none">Collaborated with a dedicated HPC research team (ANSWER LAB) to conduct fuzzing research, identifying and analyzing software bugs in scientific applications on High Performance Computing (HPC) systems. Orchestrating GenAI APIs and implementing advanced prompt engineering techniques to generate and optimize inputs for specific research applications.Tested REST APIs as research initiatives, focusing on methodologies and techniques to effectively identify faults.Configured and deployed AFL++ for fuzz testing, orchestrated job launches on HPC systems to enhance testing coverage.Performed differential driver testing for hardware components, checking for discrepancies and potential issues.Conducted faults benchmark testing and utilized grammar-based testing approaches to identify vulnerabilities.	May 2024 - Present Corvallis, Oregon
Software Developer Intern <i>Zemoso Technologies</i> <ul style="list-style-type: none">Architected web applications with a focus on efficient, and maintainable code using Spring Boot, MySQL, and ReactJs.Facilitated code reviews and utilized Git for version control to uphold software quality.Collaborated with a team of developers to troubleshoot and resolve software defects, enhancing product performance and reliability.	Feb 2022 - Apr 2022 Hyderabad, India
Mobile Application Developer Intern <i>FindMind Analytics</i> <ul style="list-style-type: none">Developed mobile banking app for teenagers with parental controls, using Flutter for cross-platform deployment.Enhanced app performance and scalability by integrating Firebase, improving speed and reliability.Launched the ZuPay app on iOS and Android, reaching over 10,000 users in the latest assessment.	Jul 2021 - Sept 2021 Remote

PROJECTS

CuisineQuest - Android Application — <i>Kotlin, SQLite</i> <ul style="list-style-type: none">Engineered and launched an Android application utilizing Kotlin and Spoonacular APIs to deliver a dynamic food recipe platform.Integrated features such as a local SQLite database for offline data storage, user preferences, filters, and custom recipe creation using Material UI, enabling users to curate and manage their culinary preferences seamlessly.	Jan 2024 - Mar 2024
Custom Fantasy Football — <i>Pandas, Numpy, GCP Recipes, Hadoop</i> <ul style="list-style-type: none">Architected a data-driven Fantasy Football Game on Google Cloud Platform using OSEMN Process, providing insights into team optimization strategies.Orchestrated data management with Pandas and Numpy, executed cleaning with GCP Recipes, and processed large files using Hadoop and Spark Clusters.	Jan 2023 - Apr 2023
CampSite Cams — <i>Express, React, Node, Heroku, Mongo Atlas</i> <ul style="list-style-type: none">Developed and deployed a MERN Stack web application for camping enthusiasts, leveraging React for dynamic web page rendering. Facilitated user engagement by enabling trip planning and promoting outdoor activities.Implemented OAuth 2.0 for user authentication, and managed MongoDB Atlas for data storage.	May 2021 - Jul 2021

SKILLS

Languages and Frameworks	Python, C++, Kotlin, JavaScript, Node, Express, Spring Boot, L ^A T _E X, Docker, Flutter, React
Databases and Cloud Technologies	MySQL, MongoDB, VS Code, AWS, Google Cloud, Heroku, Firebase
Developer Tools and Software Practices	REST APIs, JIRA, Agile, GitHub, Visual Studio Code

CERTIFICATIONS

AWS Cloud, Certified by AICTE and Edu Skills Foundation (October 2021 – January 2022)
Coursera Certified - AWS Cloud Essential Skills, mastering AWS Cloud Practitioner tools (June 2021)
Oracle Certified - SQL, comprehensive understanding of Oracle SQL concepts (April 2020)