

# RACHANA THANNEERU

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## WORK EXPERIENCE

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### AMAZON WEB SERVICES

September 2022 - Present

Software Development Engineer

Seattle, WA

- Developed scalable, efficient solutions using C on the Elastic Block Storage Client team and worked with AWS services such as EC2, Cloudwatch, and S3.
- Managed and improved CI/CD infrastructure increasing deployment success rate to a worldwide fleet of 6M servers
- Implemented release automation tools using Python and Bash, introducing efficiencies to reduce manual workload on the team and promptly identify oversights.
- Participated in on-call rotation and helped mitigate immediate and customer-facing issues while simultaneously managing high priority release operations.
- Implemented unit testing in Python for extensively utilized files which increased code coverage from 0% to 85%.
- Collaborated with stakeholders and principal software engineers to define and prioritize time critical features and bugs to ensure timely delivery to customers.
- Participated in code reviews & provided constructive feedback to promote code quality and enforce best practices.
- Tested EBS performance of various EC2 instances, including storage-optimized (I4g), accelerated computing (P5), and general-purpose (Mac2) instance types, prior to customer GA.

## EDUCATION

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### UNIVERSITY OF CALIFORNIA, DAVIS

Davis, CA

Bachelor's of Science in Computer Science

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, Computer Architecture, Algorithm & Design Analysis, Intro to x86 Processor Assembly Language

Certifications: Google Data Analytics Professional Certificate

## PROJECTS

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### FULL STACK APPLICATION [🔗](#)

March 2024

- Created a full-stack application where the Flask API serves as the backend that interacts with the SQLite database. The React frontend consumes data from the API to provide a user interface.
- Demonstrated proficiency in Python, SQL, Javascript, Flask, and React

### BIKE SHARE ANALYSIS [🔗](#)

March 2024

- Developed data-driven insights to inform a new marketing strategy aimed at converting casual riders into annual members
- Demonstrated proficiency in Python, R, Microsoft Excel, Tableau and produced compelling visualizations

### CACHE PROJECT

December 2020

- Developed and implemented a fully working cache in Logisim using the Least Recently Used (LRU) eviction policy and Write Back policy to enhance data access efficiency and reduce latency.
- Conducted rigorous testing and debugging to validate the cache's reliability and performance under various scenarios

## VOLUNTEER EXPERIENCE

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### PANDEMIC PROFESSORS

2020 - 2021

- Provided one-on-one tutoring in math and computer science fundamentals and developed tailored lesson plans and projects using Scratch to accommodate each student's unique academic goals.
- Collaborated with parents to provide regular progress updates and discuss strategies for improvement.

### KODE WITH KLOSSY

2019

- Developed a website using HTML/CSS and JavaScript aiming to help connect underprivileged girls interested in a future in STEM to real-world industry opportunities.
- Worked in a team of 4 and supervised coordinating tasks and meeting deadlines.

## SKILLS

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**Technical Skills:** C++, Python, C, SQL, R, Java, HTML/CSS, Javascript, AWS, Cloud Computing, Shell Scripting, LaTeX, Unix, Git Version Control

**Soft Skills:** Problem-solving, critical thinking, teamwork, communication, leadership