Atharva Kasture

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Professional Summary

Recent graduate with coursework in Computer Systems Engineering and hands-on experience in backend development, AWS cloud infrastructure, and data-driven system design through an industry internship and multiple university projects. Quick to learn, strong in problem solving, and ready to contribute to high-impact engineering teams.

Technical Skills

- **Languages:** Java, Python,C++, JavaScript, HTML, CSS, SQL
- **Frameworks:** Express, FastAPI, React, REST
- **Cloud & DevOps:** AWS (*Certified Cloud Practitioner*), Git, CI/CD
- **Databases:** PostgreSQL, DynamoDB, MongoDB
- **Tools:** GitHub, UML, Agile/Scrum

Certifications

AWS Certified Cloud Practitioner — Verify on Credly

Work Experience

Daffodil Software Gurgaon, India
Software Developer Intern 05/2023 – 12/2023

– Designed and maintained backend services using **FastAPI** and REST APIs.
– Wrote and optimized **SQL queries**, applying indexing and caching for smoother performance.
– Assisted in implementing **JWT/OAuth2** authentication features.
– Collaborated with cross-functional teams in Agile sprints, contributing to feature planning and code reviews.
– Conducted unit and integration testing to ensure functionality and system stability before release.
– Documented backend modules and deployment steps for team reference.

Education

Carleton University Ottawa, ON, Canada
Bachelor of Science — Concentration in Computer Systems Engineering 09/2019 – 12/2024

– Relevant coursework: Operating Systems, Embedded Systems, Cloud Computing, System Design.

Projects

Distributed Health Monitoring System GitHub
02/2024 – 04/2024 University Project

– Developed a real-time vitals tracking system using **Raspberry Pi**, Firebase, and sensor fusion techniques.
– Created scalable UI dashboard with React; tested integration under load conditions.

Autonomous Snowplough Robot GitHub
09/2023 – 12/2023 University Project

– Designed autonomous robot with ultrasonic sensing, I2C communication, and Arduino controllers.
– Cleared arena while avoiding obstacles; followed iterative testing with GitHub issue tracking.

Multi-threaded Elevator Simulator GitHub
01/2023 – 04/2023 University Project

– Built elevator control logic using multi-threaded **Java** and **UDP** message passing.
– Enhanced system efficiency and fault-tolerance through optimized scheduling; tested via JUnit.