

Atharva Kasture

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Portfolio: [atharva-kasture.github.io/Personal-Web/](#)

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. Explore my portfolio at [atharva-kasture.github.io/Personal-Web/](#). 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
- BWS Full Stack Developer**

WORK EXPERIENCE

Daffodil Software

Software Developer Intern

Gurgaon, India

05/2024 – 12/2024

- Designed and maintained backend services using **FastAPI** and REST APIs.
- Wrote and optimized **SQL queries**, applying indexing and caching for smoother performance.
- Implemented **JWT/OAuth2** authentication features for secure access.
- Collaborated in Agile sprints and code reviews to deliver incremental features.
- Performed unit and integration testing to ensure system stability and performance.

EDUCATION

Carleton University

Bachelor of Science — Concentration in Computer Systems Engineering

Ottawa, ON, Canada

09/2019 – 12/2024

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

PROJECTS

Distributed Health Monitoring System

02/2024 – 04/2024

GitHub

Project

- Built an IoT network using **Raspberry Pi** and **Firebase** to track patient vitals and environmental data in real time.
- Integrated sensors via **I²C** and developed a React-based dashboard for live visualization and automation.

Autonomous Snowplough Robot

09/2023 – 12/2023

GitHub

Project

- Engineered an autonomous robot integrating ultrasonic and line sensors for real-time navigation and obstacle avoidance.
- Implemented **I²C communication** between **Arduino Due** and **Nano Every**.

Multi-threaded Elevator Simulator

01/2023 – 04/2023

GitHub

Project

- Developed a multi-threaded **Java** simulation coordinating elevator, floor, and scheduler subsystems via UDP messages.
- Enhanced efficiency and fault tolerance through optimized scheduling and **JUnit** testing.