

Chirayu Shah

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EDUCATION

University of Alberta

Bachelor of Science in Computer Science, Minor in Economics

Edmonton, AB

Expected Graduation: 2026

- **Awards:** Dean's Honor Roll (2024-2025) | **Major GPA:** 3.6

EXPERIENCE

Software Engineering TA

University of Alberta

Sept 2025 – Present

Edmonton, AB

- Developed automated grading pipelines using Python, PyTest, GitHub Actions, & Bash, **cutting grading time by 50%** & ensuring objective evaluation **across 200+ assignments**
- Mentored 24–30 students across 4–5 Agile teams, **improving milestone completion rates by 15%** & **reducing missed deadlines by 30%** through weekly stand-ups & sprint reviews
- Provided technical coaching on Git/GitHub workflows, **reducing merge conflicts & integration issues by 25%** while fostering collaborative team practices

Software Engineering Intern

Versatile Techno

Apr 2022 – Aug 2022

Edmonton, AB

- Developed features in Python, Java, and C++; integrated RESTful APIs and optimized MySQL, MongoDB, and Firestore, boosting delivery speed by **20%**, cutting bugs by **40%**, and reducing manual data handling by **25%**.
- Created workflow documentation and led peer reviews, streamlining onboarding and knowledge transfer to cut new developer ramp-up time by **30%**.

PROJECTS

Event Lottery Project | Java, Android, Firebase, GitHub

Sept 2024 – Nov 2024

- Led a 6-member team as de facto project lead by coordinating weekly sprints & task assignments, ensuring 100% on-time milestone delivery & improving **team velocity by 20%**
- Achieved 90%+ test coverage on core modules by designing unit & integration test suites, which **reduced regression bugs by 35%** during final release testing
- Designed & implemented scalable Firebase Firestore schemas to support 1,000+ lottery entries, **reducing query response times by 25%** & enabling smooth event operations

Silent Signal | React.js, FastAPI, AWS Lambda, AWS SAM, WebSockets

Apr 2025 – July 2025

- Developed a full-stack real-time ambient noise violation detection system using React.js, FastAPI, & AWS Lambda, which reduced meeting disruptions by providing instant, privacy-preserving feedback to users
- Integrated Google's pre-trained YAMNet model & custom trained model to **classify 1000+ violation** events into **500+ sound categories & returning on average 90%+ confidence scores** & triggering alerts.
- Implemented WebSocket-driven live monitoring & logging dashboards, improving user awareness of disruptive patterns & **reducing repeated noise violations by 30%**

Personal Home Lab | Proxmox, Docker, Linux, Networking, DevOps

July 2025 - Present

- Engineered a Proxmox virtualization cluster hosting 8+ Dockerized services, sustaining 99.9% uptime and providing a scalable platform for continuous experimentation with DevOps tooling
- Implemented GitLab CI/CD pipelines and a Caddy reverse proxy with automated TLS, cutting deployment time by 40% while ensuring secure, production-grade delivery of applications
- Strengthened network security and efficiency by deploying AdGuard DNS, OpenVPN, and Home Assistant automations, blocking 95% of malicious traffic and reducing household energy usage by 15%

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, C/C++, Golang, Bash, SQL (MySQL, PostgreSQL), HTML/CSS
Frameworks: React, Node.js, .NET, Flask, JUnit, Express.js, Vue.js, WordPress, Material-UI, FastAPI
Cloud & Databases: AWS, Firebase, Docker, Proxmox, GitLab CI/CD, MySQL, PostgreSQL, MongoDB, Firestore
Tools & Platforms: Git, GitHub, Docker, Linux/UNIX, Caddy, OpenVPN, Google Cloud Platform