Sumeru Chougule

C++ Software Engineer — Cloud Engineer

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Summary — Electronics and Telecommunications Engineer with expertise in **software development** and **cloud computing (AWS)**. Proficient in **C++, IAM, VPC, CloudWatch, EC2, S3 and other cloud services**. Experienced in building secure, scalable, and cost-optimized cloud architectures with hands-on exposure to automotive ADAS systems.

Skills

Tech Stack: Cloud Computing, MBD
Languages: C++, Object-Oriented Programming (OOP) in C++
DevOps: Jenkins, CI/CD, Docker
Operating Systems: Ubuntu Linux, Windows
Tools / Version Control: AWS, Git, GitHub, MATLAB
Testing Methodologies: Model-in-the-Loop (MIL), Software-in-the-Loop (SIL)

Work Experience

Fusion Softwares, Pune. **Aug 2025 – Present**
Intern – Cloud and DevOps Engineer

- Configured highly available and secure cloud environments, leveraging the **AWS ecosystem** to build functional prototypes while focusing on fundamental concepts like network security and data storage optimization.
- Leveraged **Linux commands** to automate system administration tasks, diagnose complex issues, and streamline deployment workflows in production environments.
- Automated **VPC Traffic Analysis** and **Threat Detection** using AWS VPC Flow Logs.
- Designed and deployed a full-stack application with secure database connectivity to **AWS Aurora, configuring VPC** and **security group** rules for network isolation.

KPIT Technologies, Pune. **Dec 2023 – Jun 2025**
Associate Engineer – C++ and MBD

- Completed comprehensive Genesis program training in Model-Based Design (MBD) utilizing **MATLAB-Simulink** and **C++**.
- Developed a strong understanding of object-oriented programming concepts and Linux terminal commands.
- Played a vital role as an automotive **C++** software developer, especially in the **ADAS** domain, developing and improving object-oriented software components (OOP) and implementing new features.
- **LiDAR: Simulation, Object Detection & Collision Prediction**
  Built a LiDAR-based environmental perception system for ADAS using C++, enabling point cloud generation, processing, and real-time object detection to improve driver safety and automation.
- Contributed actively to an **agile team** that produced high-fidelity mockups on time, ensuring effective collaboration and timely delivery.

Certifications

- MATLAB/Simulink: Simulink fundamentals

Education

Rajarambapu Institute of Technology, Islampur, Maharashtra. **Aug 2020 – Jun 2024**
Bachelor of Technology in Electronics and Telecommunication Engineering
Coursework: Basic Electronics, C++, MATLAB-Simulink

Projects

Deployment of AWS VPC with Public/Private Subnets and Internet Gateway Configuration

- Architected and deployed an **AWS Virtual Private Cloud (VPC)** with custom public and private subnets, Internet Gateway, and routing configurations to enable secure, scalable, and isolated network infrastructure for cloud resources
- Utilized: AWS Cloud Platform.

Automotive Cruise Control System Modeling and Simulation

- Explained cruise control in modern vehicles as a feedback control system, demonstrating its ability to regulate and maintain constant driving speed by automatically adjusting throttle input in response to external factors such as terrain and load variations.
- Experienced with **MATLAB** and **Simulink** to model and analyze control systems for automotive applications.

Communication Languages

English: Professional proficiency **Hindi:** Native proficiency **Marathi:** Native proficiency **Kannada:** Conversational proficiency