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Professional Summary

Dynamic Software Engineer with over 5 years of experience in developing, improving, and operating full-stack microservices using **REST API** and **Python**. Proven technical leader with a strong ability to inspire and guide cross-functional teams. Excellent communication skills and a strong sense of ownership. Demonstrated success in deploying applications using **Docker** and **Kubernetes**, with extensive knowledge of **Linux OS** and **AWS** cloud technologies. Proficient in **C++**, **Node.JS** and **Java**, with practical experience in related technologies and a commitment to **agile methodologies** and best practices in software development. Proactively drives changes through innovative initiatives.

Professional Experience

Software Engineer — R2C2 Limited

Hong Kong — August 2021 - September 2024

Leadership:

- Led a team of 8 to develop a robotics platform from the ground up, completing the **complex system** within 1.5 years.
- Provided hands-on **technical mentorship** to all team members, fostering a culture of excellence and continuous learning.
- Continuously enforce short iterations using **agile methodologies**, keeping development aligned with **business goals**.
- Encouraged **application development standards**, setting up the team for high-quality deliverables.

Software Development:

- Engineered an interactive, responsive, and user-friendly application using **ReactJS**, focusing on user experience and engagement.
- Implemented **object-oriented programming principles** to create robust abstractions, maximizing **code reuse** across diverse robot brands when interfacing with 3rd party SDK.
- Architected a **distributed** robotics platform that spans across a hybrid cloud environment.
- Deployed advanced applications to **AWS cloud** using **microservice methodologies**, enabling seamless remote control of robots.
- Completed **fleet management** with **Python** and **PostgreSQL** using the **Django** and **FastAPI** frameworks.
- Successfully employed profiling tools like **Valgrind**, identifying performance bottlenecks and improving performance by 15%.
- Developed a templating tool with **Java** for end-users to print robot AR codes with custom branding.
- Performed **automation testing** with **Python** and **C++** to ensure software quality and reliability.

Cloud and DevOps:

- Ensured data integrity and accessibility by synchronizing inspection data from edge devices to the **cloud** using **S3 bucket** and **AWS RDS**.
- Troubleshoot and resolved production issues **on-the-spot**, minimizing downtime and enhancing **system reliability** showcased the ability to **perform under pressure**.
- Designed and managed deployment pipelines using **GitLab CI/CD**, ensuring smooth and efficient release cycles.
- Achieved reliable application deployment using **Docker** and **Kubernetes** on **AWS EC2** machines.

- Set up and maintained an on-premise **cloud** using **Ubuntu Linux** as the OS, with multiple nodes and software RAID for redundancy and fail-safe.

Software Developer — Centauri Optics

Hong Kong — May 2020 - July 2021

- Delivered software for an advanced hand-held microscope, significantly advancing portable medical technology.
- Created a high-performance, low-latency **real-time streaming application** using **C++** and **OpenGL**, achieving a seamless 30fps, full HD stream on a power-constrained microcomputer.
- Collaborated with cross-functional teams of scientists and engineers to deliver high-quality software solutions, ensuring alignment with business goals.
- Managed source control and implemented **CI/CD pipelines** using **GitLab**, streamlining development workflows.

Junior Software Developer — Coxana Innovation

Hong Kong — January 2019 - December 2019

- Developed full-stack smart home applications using **Flutter** and **C++**, contributing to the advancement of IoT technology.
- Actively participated in **code reviews**, providing valuable feedback and contributing to the improvement of development standards.
- Supported the deployment and monitoring of applications in **production environments**, ensuring their stability and performance.
- Assisted in the design and implementation of cutting-edge IoT-based smart home solutions.
- Collaborated closely with a cross-functional team of electronics and mechanical engineers, implementing best practices to ensure seamless integration.
- Developed a robust database using **MySQL**, **Node.js**, and **Sequelize** to track deployed IoT devices and their statuses, enhancing data management and reporting capabilities.

Education

Bachelor's Degree in Computer Science

The Hong Kong Polytechnic University — 2021

Technical Projects

Contributor: Bikespace.ca

Toronto — October 2023 - Present

- Enhanced and maintained user-facing features using **React.js**, improving overall functionality.
- Optimized user experience by incorporating feedback gathered from meet-ups.
- Collaborated with end-users to translate feedback into actionable features and improvements.

Skills

Technical Skills

- **Programming Languages:** Java, JavaScript, Node.js, C++, Python
- **Frameworks:** React, NextJS, Flutter, HTML, CSS, Jest
- **Microservices:** REST API development and design
- **Databases:** MySQL, PostgreSQL
- **Cloud Technologies:** AWS
- **Linux:** Ubuntu, Fedora, Bash scripting and system automation
- **Containerization:** Docker, Kubernetes
- **Source Control:** GIT

- **CI/CD Tools:** GitLab CI/CD, GitHub Actions

Soft Skills

- Excellent communication and collaboration
- Technical leadership and mentorship
- Strong sense of ownership and accountability
- Agile methodologies and best practices adherence
- Troubleshooting and problem-solving