A S Swan

Application Developer

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Summary

Application Developer with hands-on experience in **C++, Java, Python, and Node.js**, specializing in enterprise application development across the full **Software Development Life Cycle (SDLC)**. Strong foundation in **data structures and algorithms** with proficiency in C++ and Java. Experienced in designing scalable applications using **cloud platforms (AWS, GCP)**, DevOps methodologies, CI/CD pipelines, and test-driven development. Fluent communication skills with a passion for building enterprise systems.

Skills

Programming Languages: C++, Java, Python, Node.js, JavaScript, TypeScript, SQL
Web & Frameworks: RESTful APIs, GraphQL, Express.js, React, Next.js, HTML, CSS
Cloud & DevOps: AWS (Lambda, EC2, CloudWatch), GCP, Docker, CI/CD Pipelines, DevOps Methodologies
Data & Databases: PostgreSQL, MySQL, MongoDB, Firebase, Data Access Frameworks, Batch Processing, Data Modeling
Development Practices: Test-Driven Development (TDD), SDLC, Agile, Code Reviews, Enterprise Systems Integration

Experience

Software Engineer **July 2024 – Present**
White Rabbit Group *Node.js, AWS, TypeScript, REST APIs, CI/CD*

- Designed and developed **28+ enterprise-grade serverless APIs (AWS Lambda)** using Node.js and TypeScript with **dependency injection patterns**, applying RESTful services with schema validation for bidirectional data synchronization across Salesforce, HubSpot, and Microsoft Dynamics, processing **100K+ records with zero data loss**.
- Engineered **transaction management and batch processing pipelines** with RESTful endpoints, scheduled jobs, and retry mechanisms, reducing **enterprise system integration** time-to-market by 40%.
- Built a **scalable API backend** with MySQL, incorporating JWT authentication, **test-driven development (TDD)**, RESTful endpoint design, and internationalization while participating in **code reviews** throughout the SDLC.
- Deployed a **high-availability enterprise web application** on GCP with **CI/CD pipelines, DevOps methodologies**, and automated testing, achieving sub-2s response times globally.
- Integrated **enterprise systems** within a DynamicWeb platform, leveraging a payments module with **data access framework optimization** and performance tuning, improving load time by 30%.

Projects

Serverless API Platform | *AWS Lambda, Node.js, REST APIs, CI/CD* **2024 – Present**

- Architected an **event-driven enterprise application** with custom Lambda Layers for code reusability, webhook handlers for real-time data extraction, and metric monitoring via CloudWatch, following **SDLC best practices with test-driven development**.
- Executed **large-scale batch processing and data migration APIs** with hash-based duplicate detection, error recovery, and compliance-driven validation ensuring **data integrity and enterprise system integration**.

DSA Problem Solver | *C++, Java, Data Structures & Algorithms* **2023 – Present**

- Solved **200+ data structures and algorithms problems** in C++ and Java, covering arrays, trees, graphs, dynamic programming, and algorithmic techniques, strengthening core **programming proficiency in C++ and Java**.

MessedUp – Campus Management System | *React, JavaScript, HTML/CSS, Firebase, PostgreSQL* **2023 – Present**

- Delivered a **full-stack enterprise application** with real-time database synchronization and **transaction management**, serving 500+ concurrent users across multiple locations with 99% uptime.

Education

B.Tech in Computer Science **Graduated: 2024**
School of Engineering, CUSAT *CGPA: 8.49 / 10*