

# Sushil Kainth

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## Summary

Highly skilled Software Engineer with 3+ years of experience in developing scalable cloud-based applications using Python, Java, and JavaScript. Specialized in full-stack development, cloud services (AWS, Azure), and building high-performance applications with a focus on satellite communication and machine learning systems. Proven track record of improving system performance by 72% and optimizing models for a 34% accuracy increase. Excited about innovative challenges in large-scale system design and AI integration.

## Skills

### Technical Skills

- **Programming Languages:** C# | Python | Java | JavaScript
- **Frameworks & Libraries:** .Net | Django | Spring Boot | JQuery | ReactJS
- **Database:** SQL (PostgreSQL | MySQL) | NoSQL (MongoDB | DynamoDB) | Redis
- **Cloud Services:** AWS (Lambda, S3, API Gateway, DynamoDB) | Azure
- **Tools & Technologies:** Git | Docker | Kubernetes | Agile | WebSockets | Confluence
- **Machine Learning:** NLP | Model Training | Reinforcement Learning | Computer Vision

### Soft Skills

Leadership | Team Collaboration | Problem Solving | Communication | Analytical Thinking

## Work Experience

### Full Stack Software Developer

*Algonquin College (SLiDE) | Ottawa, ON | January, 2023 – Present*

- Designed and developed cloud-based, multi-tier applications using AWS Lambda and ReactJS, improving internal tools and enhancing client-facing solutions.
- Owned the entire product development lifecycle from requirements gathering and development to testing, deployment, and user testing, ensuring high-quality deliverables.
- Implemented complex SQL queries and integrated front-end frameworks with backend data services using RESTful APIs, resulting in a 99% reduction in loading times and a significant enhancement in NLP outcomes.
- Reduced application response times by 72% using SQL optimization and enhanced data services, leveraging Docker for containerized deployments.
- Improved accessibility by utilizing WAVE and color blindness simulators to modify designs, ensuring inclusive and user-friendly interfaces.
- Optimized NLP-based models for Human + AI interactions, achieving a 34% increase in accuracy and documenting future improvements using LLMs and Generative AI to enhance user experience and performance metrics.

### Software Developer

*Aspire Software | Montreal (remote) | July, 2021 – September, 2022*

- Migrated legacy monolithic apps to microservices architecture using Spring Boot and Kubernetes, achieving 60% downtime reduction and 99% uptime.
- Improved authentication by 130% using Java Based Keycloak authentication, increasing scalability on AWS.
- Developed and deployed containerized applications using Docker and Kubernetes on AWS, enhancing system scalability and resilience.
- Implemented secure RESTful APIs for internal and external integrations, ensuring data integrity and security.
- Analyzed, troubleshooted, and debugged issues in production environments, maintaining high system reliability.
- Mentored junior developers, fostering a culture of continuous learning and improvement.

### Software Developer

*PlanetWalks | India (remote) | October, 2020 – June, 2021*

- Developed an Angular 10-based rendering system that dynamically generates forms from JSON, reducing static form code by 20% and improving production speed by 15%.
- Integrated OAuth 2.0 with Spring to enable secure and seamless authentication, boosting user adoption by 10% through enhanced functionality and improved security features.
- Implemented multi-tenant authentication across multiple applications, enabling the company to efficiently manage over 50 clients simultaneously, improving organizational capability by 30%.

## Education

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### **Graduate Certificate in AI Software Development**

*Algonquin College*

### **Bachelors of Engineering in Computer Science and Engineering**

*Chitkara University*

## Projects

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- **Application Tracker**  
Developed a Java-based package to track user behavior across microservices, increasing insight-driven decision-making by 15%.
- **AI-Powered Face Detection System**  
Leveraged TensorFlow, OpenCV, Reinforcement Learning and Python to create a real-time face detection system that automatically adjusts camera's settings for better results. Integrated with backend services for data storage and retrieval, ensuring seamless user experience.
- **Get Locals**  
Developed a platform for local business owners to create websites with SEO, Ads, and Social Media integrations, reducing setup time by 80%.
- **Portfolio**  
Developed my Portfolio using pure ReactJS. [Click Here](#) to access the portfolio

## Certificates

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- Oracle Certified Java SE 8 Programmer
- AWS Cloud Practitioner
- AZ-104: Microsoft Azure Administrator