

KEESHIGAN PIRABAHARAN

SOFTWARE ENGINEER

CONTACT

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SKILLS & COMPETENCIES

JavaScript
TypeScript
Python
Go
ReactJS
NextJS
NodeJS
Amazon Web Services (AWS)
Microsoft Azure
REST APIs
Docker
Kubernetes
Problem Solving
Debugging & Troubleshooting
Cross-functional Collaboration
Software Documentation
Application Scalability
System Reliability
User Satisfaction

EDUCATION

B.E.Sc - Mechatronics Systems Engineering
University of Western Ontario
Sep 2017 - Apr 2022
London, ON

PROFILE

Highly skilled software engineer with 3 years of experience in JavaScript, Python, and Go. Proven expertise in building scalable applications, optimizing performance, and delivering user-centric solutions. Proficient in cloud architectures, Docker, Kubernetes, and automation, with a focus on efficiency and innovation.

WORK EXPERIENCE

Software Development Engineer II | *Curtiss-Wright Defense Solutions*

Ottawa, ON | June 2023 – Present

- Designed and developed a user-friendly Web GUI using TypeScript and NextJS, providing an alternative to the CLI interface and improving usability by 20%
- Led the development of an automated testing framework for a 100G switch platform using Python, Pytest, and PowerShell, reducing testing time by 35%
- Implemented backend logic in NodeJS to interface with internal APIs for monitoring hardware health and alerts

Software Development Engineer I | *Curtiss-Wright Defense Solutions*

Ottawa, ON | June 2022 – June 2023

- Developed a robust automated testing framework in C and Bash for qualification testing of a hybrid network switch and vehicle management system
- Participated in agile ceremonies, code reviews, and collaborative development, ensuring alignment with software quality standards
- Optimized development workflows by containerizing applications with Docker, reducing environment setup complexities and cutting development time by 10%

Software Technical Engineer (PEY) | *Ontario Power Generation*

Pickering, ON | May 2020 – August 2021

- Performed simulations using MATLAB to optimize efficiency and safety in nuclear plant operations, meeting Canadian Nuclear Safety Commission (CNSC) standards
- Collaborated with a multidisciplinary team of engineers to adjust system and software requirements, ensuring compliance with regulatory metrics and performance benchmarks
- Assisted in automating internal workflows using Python scripts, cutting down manual reporting time by 30%

PROJECTS

AI SaaS 🤖

- Developed a Chat-GPT like AI SaaS that generates conversation, image, video, code and music responses using various AI models
- Utilized Azure Virtual Machines and Container Instance services for production deployment

E-Commerce Store 🌐 🌐 🔄 + Admin Dashboard 🌐 🔄

- Built an interconnected store and CMS web application using NextJS 14 and Shadcn/ui, enabling multi-store management and seamless content updates
- Integrated Stripe for secure payments, set up webhooks for data synchronization, and leveraged AWS S3 and RDS for scalable, high-performance data storage

CERTIFICATIONS

Azure Fundamentals

Microsoft • Issued Jul 2024

AWS Certified Cloud Practitioner

Amazon Web Services (AWS) • Issued Mar 2024 - Expires Mar 2027