KEESHIGAN PIRABAHARAN

SOFTWARE DEVELOPER / MECHATRONICS ENGINEER

CONTACT

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SKILLS

Full Stack

HTML / CSS / Tailwind

JavaScript / TypeScript C# / .NET Framework

ReactJS / NextJS

Bun / NodeJS / ExpressJS

ORMs (Prisma / Drizzle)

REST / GraphQL

NoSQL (MongoDB)

SQL (MySQL / PostgreSQL)

Mobile

Dart / Flutter

Android / Kotlin

Embedded Systems

C / C++

Linux

Arduino / Raspberry Pi

Data Science / Other

Python

Git

AWS CDK / SDK

Docker

EDUCATION

B.E.Sc - Mechatronics Systems Engineering

University of Western Ontario, 2017-2022

PROFILE

I am a performance-driven software developer with a passion for creating innovative solutions. I excel in swiftly mastering new technologies and am proficient at developing reliable, efficient, and scalable applications that significantly enhance system performance. My strong problem-solving aptitude, attention to detail, and excellent communication skills facilitate effective collaboration, contributing to the success of projects.

EXPERIENCE

Associate Software Developer | Curtiss-Wright Defense Solutions

Ottawa, ON | June 2022 - Present

- Developed automated C and Bash test software for qualification testing on a hybrid vehicle management / network switch device
- Created a Web GUI platform using React.js and Hiawatha to allow users to make switch configuration adjustments along with existing CLI platform
- Utilized Docker to streamline cross-compilation toolchain setup for ARM SBCs
- Seamlessly integrated data plane and control plane ports to optimize network performance and functionality for a new 100G switch platform

Software Technical Engineer (PEY) | Ontario Power Generation

Pickering, ON | May 2020 - August 2021

- Enhanced plant control software to optimize efficiency and safety of nuclear power plant operations by utilizing MATLAB for simulation and validation
- Engaged closely with regulatory bodies such as the Canadian Nuclear Safety Commission (CNSC) to ensure compliance with regulatory requirements
- Proactively monitored changes in regulatory standards and guidelines, implementing necessary updates to software systems to maintain compliance
- Collaborated with maintenance teams to develop software-based solutions for optimizing outage schedules and reducing downtime

Software Engineer (Internship) | Microsoft

Vancouver, BC | May 2019 - August 2019

- Developed new features for Azure products using C# and .NET framework
- Participated in code reviews, debugging sessions, and software testing to ensure the quality and functionality of applications

PROJECTS

Al SaaS 🗘

- Developed a Chat-GPT like AI SaaS that generates conversation, image, video, code and music responses using various AI models
- Utilized SST to integrate AWS services for production
- Utilized Docker, Postgres and S3 to save expensive AI generated prompts

- Developed an interconnected store and CMS web application using Next.js
 13.4 and Shadcn/ui, with the option to create and manage multiple stores
- Integrated Stripe for secure payments and set up webhooks for data sync
- Utilized AWS S3 and RDS to store data for high scalability in production

Smart Home Mobile App

- Developed a smart Android application to facilitate remote control of blinds including a smart mode, leveraging geofence technology for automation
- Integrated Raspberry Pi with Firebase to facilitate user-controlled window and blind operations, incorporating real-time sensor data for prompt adjustments