

KEESHIGAN PIRABAHARAN

FULL STACK DEVELOPER / MECHATRONICS SYSTEM ENGINEER

CONTACT

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📍 Toronto, ON

SKILLS

Full Stack

HTML / CSS / Tailwind
JavaScript / TypeScript
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 using React.js and Hiawatha to allow users to make switch configuration adjustments along with existing CLI
- Utilized Docker to streamline cross-compilation toolchain setup for ARM SBCs
- Participated in code reviews and worked with other developers to ensure software quality and adherence to coding standards

Project Manager (Intern) | *Ontario Power Generation*

Pickering, ON | July 2020 – July 2021

- Assisted senior project managers with capital project (>\$200k), including coordination with internal stakeholder and EPC to ensure project success
- Exposure to industrial operations, complex system processes, and practical failure modes
- Worked with a multidisciplinary team of engineers and technicians to support modifications

PROJECTS

AI 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

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

- 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

Spotify Clone 🌐 🔄

- Built a fully functional and responsive music streaming platform using Next.js 13.4, with the ability to upload and listen to songs
- Utilized Supabase for streamlined authentication and music storage
- Implemented subscriptions using Stripe with webhooks to update Supabase

Smart Home Mobile App 📱 🔄

- Developed an Android application using Kotlin that facilitates remote control of blinds and windows with three modes: manual, automatic, and smart.
- Leveraged geofence technology for seamless automation, allowing blinds and windows to close automatically when the user leaves home.
- Integrated Raspberry Pi with Firebase to facilitate user-controlled window and blind operations, incorporating real-time sensor data for prompt adjustments