KEVIN PUTHANANGADI

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Expected Graduation: May 2025

SKILLS

Languages/Frameworks: Python | Java | C#/C++ | MATLAB | Verilog | ARM64 | SQL | JUnit5 | HTML/CSS

Software/Technologies: Git | Jira | FPGA | Simulink | Flask | OpenCV | Tensorflow | Keras | Pandas | Linux | SolidWorks

Soft Skills: Time-Management | Self-Awareness | Accountability | Communication

EDUCATION

The University of British Columbia

Bachelor of Applied Science in Electrical and Computer Engineering

• GPA: 3.65/4.0

EXPERIENCE

EPSON May 2023 - Sept 2023

Software Development Engineering Intern

Python | Jenkins | MATLAB | Simulink | Git

- Solved challenging distributed systems problems as a member of the heads-up display team, combating pixel-warping in EVs
- Accelerated project timeline by 50%, when applying Simulink modelling to virtual pixel displays generated within MATLAB
- Leveraged Python and Jenkins to automate workflows for 700+ users, resulting in 5% faster developmental procedures
- Engineered comprehensive unit tests ensuring reliability/stability of new features and achieved 90% statement coverage
- Refactored a firmware codebase to diminish CAN bus load by 20%, additionally introduced more modularity

Robokids May 2022 - Aug 2022

Software Engineering Intern

C#/C++ | SQL | Agile | Git | Jira

- Developed an autonomous system for storing projects in the **cloud**, while increasing storage allocation from **2TB** to **5TB**
- Reduced project internal timelines by 8 hours monthly with a .NET Core web application in C# automating repetitive tasks
- Managed sysadmin duties including deploying Proxmox environment and migrating SQL databases across hosting platforms
- Proposed and maintained ETL pipelines to extract and transfer data, increasing production efficiency of new projects by 15%
- Adopted agile software development principles by collaborating in a team setting applying GitHub and JIRA

PROJECTS

NeuralDrive | 😯 | 🔼

Jan 2023 - Apr 2023

Backend Developer

Jupyter Notebook | TensorFlow | Keras | OpenCV | Raspberry Pi

- Spearheaded development of a computer vision driving algorithm for autonomous course navigation and crash avoidance
- Adapted Linux Lite as a lightweight operating system, lowering vehicle's general response time by 0.72 seconds
- Integrated real-time image processing utilizing a neural network which was trained with TensorFlow using custom test data and data generation scripts to recognize unknown track layouts

KCAL | (7) | Feb 2023 - Mar 2023

Full-Stack Developer

OOP | Java | JSON | Swing | JUnit5

- Implemented robust data validation and exception handling mechanisms, decreasing the number of bugs within the calorie counter application by 33% consequently improving overall system reliability
- Designed an intuitive user-interface with Swing, added JSON data persistence, and applied JUnit5 for rigorous testing
- Optimized performance by implementing a quicksort algorithm to obtain consumption data, reducing run-time by 9%

SpotifyGo | 😯 | 🖸 Dec 2022 - Jan 2023

Full-Stack Developer

Python | Flask | API | Git | HTML/CSS

- · Led a team of four to develop an application that generates an adaptive Spotify playlist dependent on commute distance
- Regulated back-end template rendering and performed session token API authentication utilizing Python and Flask
- · Constructed custom classes to manage data from multiple APIs efficiently, improving data organization and retrieval

COURSEWORK

- Software Construction: 90% fundamentals of software design, computational models, data structures, and testing
- Machine Learning: 88% introduction to principles of machine learning, neural networks, and deep learning
- · Linear Algebra: 96% study of matrix theory, systems of linear equations, and canonical forms of matrices

JULY 2023 **US & CANADIAN CITIZEN**