KEVIN PUTHANANGADI

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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   **Expected Graduation: May 2025**
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 related to heads-up display technology, 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** trained with **TensorFlow** using custom test data   and data generation scripts to recognize unknown track layouts

KCAL | | ▶   **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

- **Machine Learning:** 88%   - **Software Construction:** 90%   - **Linear Algebra:** 96%
- **Digital Logic Desgin:** 90%   - **Software Engineering:** 92%   - **Calculus I-IV:** 90%