

Kenta Morris

Mechatronics Engineering | Software Developer

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Technical Skills

Languages • C, C++, Python, JavaScript, NoSQL, Bash, VHDL

Technologies • Node.js, Docker, Git, PostgreSQL, Chai/Mocha, Postman, Robotframework, AutoCAD, SolidWorks

Experience

OpenText • Developed backend features in **Node.js** for multi-tenant file sharing cloud application

Software Developer
Fall 2017

- Migrated data and refactored **PostgreSQL** database to use **Cassandra** in place of **ElasticSearch** indexing
- Configured and debugged **Docker** containers for **Kue**, **Redis**, and **Kafka** within development environment
- Implemented scripts within **PostMan** API Development Environment to debug timing issues for CRUD operations in advanced search feature
- Delivered high-level architecture investigations to project leads

Epiphan • Developed extensive test suites in **Python**, saving **40+ hours** of manual testing for each firmware iteration

QA Engineer
Winter 2017

- Redesigned existing automated tests, **doubling** test speed and enabling Linux test station compatibility
- Integrated SSIM image recognition, text recognition into **Robotframework Selenium** environment

Projects

Quiz It
(Yale Hackathon)

- Collaborated with a team to design **python flask** web app that interfaced with Amazon Alexa, Quizlet, and the Google Natural Language API to turn pictures of notes into interactive quizzes
- Winner of Best Google Cloud Platform Hack and Best Education Hack

Poem Generating
Program

- Gathered and organized information from different dictionaries by creating text parsing procedures (**C++**)
- Conceptually planned, implemented, and debugged syntax and pronunciation matching functions

Line Following
Music Reading
Robot

- Designed award winning line following robot capable of processing shades of grey and outputting corresponding musical notes as part of a campus wide competition

Education

University of Waterloo | Mechatronics Engineering

Bachelor of Applied Science, Class of 2021

Design Teams • BioMechatronics Powered Arm team

Relevant classes • Data Structures and Algorithms, Digital Logic and Computation

Interests

- Guitar Teacher (2014 - 2016)
- Competed on Soccer, Hockey, Cross-Country, Track and Field, and Tennis teams