Murali Komaravolu

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Education

Honors Bachelor of Science, University of Toronto
Computer Science – 3.2 GPA **2013 - 2018**

- Related coursework: Software Design | Data Structures | Algorithms | Network Programming | Operating Systems | Artificial Intelligence | Machine Learning | Vision | Graphics | Web Development

Skills

- **Languages**:
  Proficient: Python, Java, C#, MATLAB
  Working knowledge: JavaScript, C/C++, HTML, Racket, Haskell, SQL, Bash, GLSL, Objective C
- **Technologies**: Eclipse, Linux, Unity, Visual Studio, Github, Svn, Docker, Jenkins, Gradle, OpenGL, OpenCV, VirtualBox, Ajax, React, Mocha, Express, Node.js, Rest services, MongoDB, Mocha, ES6

Projects

Concert Tracker Website – JavaScript **2018**

- Developed a website that tracks concert tours on a map using TicketMaster and Google Maps APIs
- Front End: React with JSX
- Middleware: Node.js and Express to write RESTful API, routing, session management, authentication
- Backend: MongoDB for database management

Autonomous Driving - Python **2017**

- Applied machine learning techniques to detect roads and cars given a set of stereo image pairs by using a DPM and training an SVN classifier
- Visualized the detections by drawing 3D bounding boxes around the cars using a Ransac 3D algorithm
- Created a video simulation of the detections of the cars and roads

Unity Multiplayer Game - C# **2016 - Present**

- Developed an isometric twin sticks ship combat game using the Unity engine with Visual Studio in a team of programmers and artists with agile practises
- Designed and programmed core gameplay mechanics and implemented some of the art, animations, UI.
- Winner of the People's Choice Award at Level Up Showcase 2016

Hospital Scheduling Android Application - Java **2015**

- Collaborated with three other students on GIT using scrum methodology to build a hospital scheduling Android application on Eclipse
- Implemented some of the core backend and frontend/UI functionality of the application
- Demonstrated OOP principles in Java to design flexible architecture to expand functionality if necessary

Work Experience

Software Developer Intern
Echoworx, Toronto, Canada **May 2016 – April 2017**

- Made testing more efficient by implementing a large-scale Java application that automated QA tests for email encryption using the Selenium and TestNG framework.
- Covered a large variety of cases by writing programs to test for PGP, SMIME, TLS, and PDF attachment encryption types using OOP practises
- Reduced the test time by setting up the application to run over 100 parallel tests using Jenkins in Linux.