

Owen Qian

Contact

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Languages

C/C++
Java
Python
MATLAB
JavaScript
HTML
CSS
PHP

Platforms

UNIX terminal, Vi/Vim,
NetBeans, Eclipse,
MATLAB

Interests

Chess
Traveling
Machine Learning

Skills

Object Oriented Design

- 2 years of Java/Android side projects, creating GPS app for Android
- 3 years of C++ implementing data structures and algorithms including hash-tables, quick-sort and working with OpenCV for Robotics design teams

Web Development

- Created personal website from scratch with HTML/CSS and JavaScript

Experience

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|-----------|---|------------------------|
| Current | One of a Kind <i>Intelligent Poker AI—Makes insightful decisions by predicting opponent's holdings</i> <ul style="list-style-type: none">• Use of Monte Carlo analysis to calculate probability of winning• Adjust opponent hand probabilities based on model of logical player | |
| Jan 2016 | Live Free <i>Diabetes Glucose Level Predictor</i> <ul style="list-style-type: none">• Predicts blood sugar levels with 91% accuracy!• Implemented neural network with stochastic, random-batch gradient descent• Map reduced to run on multi-threaded Linode servers | PennApps XIII |
| Mar 2016 | Robot Racing <i>Competitive Design Team—Designing autonomously driving racing car</i> <ul style="list-style-type: none">• Used hsv filters and colour channel manipulation to isolate red and green for traffic light detection• Prototyped algorithm in MATLAB then transposed code to C++ using OpenCV library | University of Waterloo |
| May 2015 | Employee Database <i>Java Program with GUI—Allowing efficient storage and look-up</i> <ul style="list-style-type: none">• Practiced object-oriented design, applying inheritance for Part-time and Full-time employees• Look-up of employee with ID number, first and last name, ID number, and working status in constant time | |
| June 2015 | Lead Robotics Programmer <i>Oversaw development of autonomous robot function for 2015 Recycle Rush</i> <ul style="list-style-type: none">• Led design and creation of plastic-bin-stacking algorithm with development schedules and strict deadlines• Co-ordinated and worked in parallel in cross-functional environment with Mechanical and Electrical teams | FIRST and VEX Robotics |

Awards

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|----------|--|---|
| Jan 2016 | Best Predictive Algorithm Live Free—91% accurate neural network glucose classifier | PennApps XIII |
| Jan 2016 | National Chess Master Led Waterloo team to 2nd place finish with best individual performance | Canadian University Chess Championships |

Education

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|-----------|--|------------------------|
| 2015–2020 | B.ASc Candidate in Computer Engineering | University of Waterloo |
| Mar 2016 | Stanford Machine Learning | Coursera |
| Jan 2015 | 2360 SAT Score: 800 Math, 800 Writing, 760 Reading | College Board |