

Owen Qian

Contact

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github.com/OwenQian

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 through 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

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

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

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