Jim Jiaming Zhu

jim.jiaming.zhu@gmail.com   647.865.4188

SKILLS

LANGUAGES
Proficient
Java • C# • JavaScript
Familiar
C • C++ • Python • PHP
Assembly • SQL • Go • R

TECHNOLOGIES
NodeJS • AngularJS • Vue.js
Android • Cordova • Arduino
Firebase •MySQL

EDUCATION

UNIVERSITY OF WATERLOO
CANDIDATE FOR BASc IN
COMPUTER ENGINEERING
Expected 2020 | Waterloo, ON
Cum. Avg: 84.36%

AGINCOURT C.I.
Grad. June 2015 | Toronto, ON
Bilingual Certificate

COURSEWORK

Algorithms and Data Structures
Operating Systems
Embedded Microprocessor Systems
Embedded Engineering Design
Digital Computers
Calculus 2 for Engineering

AWARDS

2016	Dean's List, 7th out of 96
2015	VEX Regional Winner
2015	CSMC School Champion
2013	Galois Math Contest, Top 4%
2013	CIMC School Champion

LINKS

Personal Site	JimJZhu.com
Github	JimJZhu
LinkedIn	JimJZhu

EXPERIENCE

SAP | SOFTWARE APPLICATION DEVELOPER
Jan. 2017 - Apr. 2017 | Toronto, ON
- Developed and tested the R engine for SAP Dynamic Edge Processing
- Created a custom Java tool to debug OData servers, saving days of work
- Constructed Arduino/RPi demos, used at Hannover-Messe and SAP d-kom

MHS | SOFTWARE DEVELOPER
May 2016 - Aug. 2016 | Toronto, ON
- Optimized an assessment scoring algorithm, improving speed by 500%
- Built an internal peer-recognition app from scratch using Ionic and Firebase

PROJECTS

SUPERSKETCH Apr. 2017 - Present
- Developing a multiplayer Pictionary-style drawing game
- Written using Vue.js and Go for high performance

QUICK GRAPH Jun. 2017 - Present
- Writing a light-weight data visualization Chrome extension
- Leveraging npm as a build tool to automate the process

OSU DATA AGGREGATOR Jan. 2016 - Apr. 2016
- Developed a webscraper that aggregates player data based on performance and playstyle
- Written using Python and the Beautiful Soup library

DEAD RECKONING APP Jan. 2016 - Apr. 2016
- Created a native Android app that track a user's movements and position using the phone's onboard sensors
- Implemented an A* algorithm to navigate the user over any SVG map

J-OSU Apr. 2015 - Jun. 2015
- Developed a rhythm game capable of reading custom song files in Java
- Incorporated custom game loops to minimize delays between audio and visuals

TECHNICAL ASSOCIATIONS

AUTONOMOUS ROBOT RACING Sept. 2015 - Present | Waterloo, ON
- Redesigning the electrical systems, making it cheaper and more robust
- Improving vehicle path planning efficiency using spline interpolation

ROBOTICS TEAM CAPTAIN Sept. 2012 - Sept. 2015 | Toronto, ON
- Revitalized team; mentored new members and gained new sponsorships
- Lead team to best-ever finishes (1st in VEX and 4th in FIRST)