Shun Rao

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Education

University of Waterloo	**Waterloo, ON**
Bachelor of Software Engineering	Sept 2017
Colonel By Secondary School	**Ottawa, ON**
International Baccalaureate Programme	Sept 2013 - May 2017

Experience

dominKnow Learning Systems   **Ottawa, ON**
Software Developer   Jun 2016 - Aug 2017

• Developed full stack e-learning & authoring solutions in Java for corporate clients. • Drafted and wrote efficient version control system using JSON data comparison for cloud authoring system from start to finish • Led the development of a HTML5 asset editor ColdFusion server logic and JS canvas manipulation. • Built an automated LESS theming engine and implemented optimizations to increase compilation speeds by 500%

University of Ottawa Heart Institute   **Ottawa, ON**
Lead Developer   Feb 2016 - Feb 2017

• Led iOS development of MOC Pager, an application that prepares med students for residency by simulating situations involving surgical patients.
• Managed Firebase backend for secure cloud storage of responses
• Project presented at the Canadian Conference on Medical Education and the American Association of Surgical Education

The Aqua Life Swim Academy   **Ottawa, ON**
Swim Instructor   Aug 2016 - Dec 2016

• Gave private lessons to swimmers of all ages. • Created lesson plans and established excellent relations with parents and students.

Projects

Orpheus   **Node.js, Python for ML**
github.com/shunr/orpheus   Jul 2017

Interactive machine learning experiment that trains an online classification model to learn individual music tastes. Uses user feedback to 30-second Spotify previews to estimate likelihood of genre and track preference.

AnonBot   **Node.js**
github.com/shunr/anonbot-fb   Mar 2017

Node.js service for anonymous chatting with random strangers using Facebook Messenger platform. Implements Facebook webhooks and user pairing with MongoDB.

Code Curator   **Python**
github.com/shunr/code-curator   Mar 2017

Utility to intelligently crawl contest sites and generate indexed repositories of personal code submitted to competitive programming platforms.

Greedy Snek   **C++**
github.com/shunr/greedy-snek   Nov 2015

SFML based "snake" game against aggressive AI with greedy pathfinding

Accomplishments

2017	ECOO Programming Contest Eastern Ontario Champion
2017	Canadian Computing Competition Certificate of Distinction
2016	Canadian Federation of Medical Students Student Initiative Grant
2016	CCC Certificate of Distinction
2016	Colonel By Coding Club Co-Founder
2015	TechU.me Ottawa AppJam Winner
2015	OSSTF Student Achievement Awards, Provincial Winner (Digital Media category)

Skills

Languages
C++, Python, Java, Javascript, C#

Frameworks/Tools
Node, Git, MongoDB, Angular, Mercurial, Jira, ColdFusion, Firebase, jQuery

Other
HTML, CSS, Machine Learning

Interests

Distance running, contest programming, guitar

Contact

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