

Justin Michaud

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EDUCATION

UNIVERSITY OF WATERLOO, 2A COMPUTER SCIENCE Sept 2016 - Present | Waterloo, ON

EXPERIENCE

PAGERDUTY, SOFTWARE ENGINEERING INTERN May 2017 – Aug 2017 | Toronto, ON

- Full stack development using Ruby, MySQL, Zookeeper, Ember and iOS/Android SDKs
- Optimized queries, indexes, denormalized columns and UX to support accounts with millions of incidents

SUDBURY ACTION CENTRE FOR YOUTH, CONTRACTOR Aug 2016 | Sudbury, ON

- Developed web application to track clients using barcodes, with Python and Django

YMCA, I.T. ASSISTANT June 2014 – Aug 2016 | Sudbury, ON

- Developed public job board using PHP, Twig and MySQL; used by hundreds of clients, 20 job counselors
- Built remote support tool that used UDP hole-punching to tunnel TCP connections without port forwarding

PROJECTS

More at justinmichaud.com

NES EMULATOR Rust, 6502 ASM	ANYSOFTKEYBOARD Java Contributor
<ul style="list-style-type: none">• Created NES emulator capable of playing Super Mario Bros, Donkey Kong• Included game modifications for Super Mario Bros. not possible on original hardware	<ul style="list-style-type: none">• Contributed gesture typing feature to create first open source swipe keyboard for Android (development builds only)

ML LEVEL GENERATION Rust, Torch-RNN	VR SPACE SHOOTER Java, OpenGL
<ul style="list-style-type: none">• Trained Torch-RNN on Super Mario Bros. levels• Modified emulator to import generated levels• Wrote blog post documenting results	<ul style="list-style-type: none">• Used Google Cardboard + BoofCV on a laptop to track the position of player's head, allowing them to shoot enemies and dodge obstacles

SKILLS

Medium Projects:	Java, Ruby, Rust, Android, MySQL
Small Projects:	C++, Python, ElasticSearch, Arduino, Javascript, EmberJS, iOS
Have Used:	PHP, C, Racket

ACTIVITIES

Orchestra@UWaterloo	2nd Oboe	Jan 2017 - Apr 2017
UW Concert Band Club	Oboe	Sep 2017 - Apr 2017
• Typing in BASIC games for my Commodore 64		