Tudor Brindus

Toronto, Ontario, Canada

416-785-1322 *me@tbrindus.ca*

Professional Experience

GoogleSoftware Engineering Intern, ChromeOS Team

Expected: May 2018 - August 2018

Toronto, ON

Software Engineering Intern

Ivv Global

September 2016 - present

Mountain View, CA

- Overhauled the company's development practices to use continuous deployment on separate staging and production environments, including version control with a centralized git repository
- Implemented a ground-up rewrite and redesign of the company's main website, ivyglobal.com
- Automated the deployment of version control branches to SSL-enabled, authenticated subdomains
- Migrated over 50 production sites to Microsoft Azure with zero downtime, including a development VPN
- Screened, interviewed, assessed, and provided on-going guidance for new software engineering interns
- Technologies used: C#, ASP.NET MVC Razor, TSQL, LINQ, HTML, CSS/SASS, JavaScript/Node.js, Python

DMOJ: Modern Online Judge

Toronto, ON

Co-founder, Developer

2014 - present

- Founded the DMOJ (*dmoj.ca*), an open-source platform for running programming contests, which has hosted over 150 competitions (including three national olympiads)
- Created a distributed code execution system capable of dynamically scaling to hundreds of nodes
- Implemented a sandbox for over 60 languages using a Linux syscall-based sandboxing approach
- Designed a responsive Django web frontend using modern web technologies
- Technologies used: Python, Django, MySQL, HTML/Jade, CSS/SASS, JavaScript/Node.js, Java, C/C++

Other Experience

More at tbrindus.ca/projects

Developed and contributed to dozens of open-source projects on my Github profile, Xyene

Emulator.NES, a cross-platform C# Nintendo Entertainment System and MOS 6502 CPU emulator

- Supports 90% of all games ever published by emulating over a dozen proprietary hardware extensions
- Focuses on code clarity by abstracting hardware components, without sacrificing performance

Nitrous Emulator, a high-performance Java Gameboy Color and Zilog Z80 CPU emulator

- Implements fully timing-accurate Z80 instruction set and audio processor emulation
- Supports native rendering output via OpenGL, Direct3D, X, and GDI

JAVI, a Java video transcoding library based on FFmpeg

- Implements a fluent object-oriented API for interfacing with native functional INA bindings
- Provides lightweight video playback integration for Swing, including audio-video syncing

Achievements

- 1st place team out of 400, ECOO 2015 and ECOO 2016 programming contests
- Member of the University of Toronto's ACM-ICPC team for 2016 and 2017

Education

University of Toronto

Toronto, ON 2016 - 2020

- Hon. Bachelor of Computer Science
 - Entrance scholarship recipient
 - Expected graduation in June, 2020