Nigel Baillie

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Education

Winter 2019 Fall 2016 University of Michigan

Major: Computer Science Engineering.

Courses: Computer architecture, operating systems, computer security, video game

development, artificial intelligence.

Winter 2016

Washtenaw Community College

Courses: Java programming, web development.

Employment

Sept 2018 Feb 2014

Software Developer at Ann Arbor T-Shirt Company

Developed features and fixes in a small team for quote building software, production tracker, and retail backend using **Ruby on Rails**.

Wrote mobile app for quick pricing using React Native.

Proposed and implemented **unified authentication** system to provide single sign-on for all in-house apps.

Built image composition tool in C++ using libpng. $1.5\times$ speedup over original.

Set up and managed **AWS** Virtual Private Cloud infrastructure.

Integrated with several 3rd party APIs for services including Shopify, Amazon, PayPal.

Extracurricular

Always 2011

Game Development

Entered in game development competitions like Ludum Dare, in teams as well as solo.

Implemented pixel-perfect collision detection and lockstep drop-in networked multiplayer.

Built a small 2D sprite renderer in Rust and OpenGL.

Wrote a runtime **JVM bytecode** injection routine for Minecraft to disable entity collision.

Miscellaneous

Installed OpenWRT and Wireguard on router to secure shared condo network.

I maintain my portfolio site (nigelbaillie.me) using a custom static site generator, hosted on Netlify.