MichaelRecachinas

student, software engineer by day, electrical engineer by night, opera singer in the shower

about

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programming

Python, C/C++
JS, OCaml, Rust,
Java, HTML5, CSS3

frameworks

Flask, Node.js, iOS
Android SDK

interests

PL theory/compilers
machine learning
neural networks
computer graphics
computer vision
NLP
full-stack dev
quantum computing

education

since 2012 **University of Virginia** MS in Electrical Engineering — Expected Spring 2015
Concentration in RF/Microwave Engineering
Current GPA: 3.8

2010-2014 **University of Virginia** BS in Electrical Engineering — Graduated May 2014
Triple Major in Electrical Engineering, Computer Science, and Physics
Minor in Applied Mathematics
Overall GPA: 3.2

experience

2014 - now **Axios, Inc.** Software Engineer — Dulles, Virginia

2013-2014 **WillowTree Apps** Web Developer Intern — Charlottesville, Virginia
Rewrote an open source library for Backbone.js and Marionette.js; Built IRC bots that aided with internal task automation (included sentiment analyzer).

05-08/2013 **Scitor Corporation** Program Manager Intern — Chantilly, Virginia
Developed risk reduction package for multi-million dollar next-generation memory unit for National Reconaissance Office satellite. Built iOS application.

2012-2014 **GroundsForArgument.org** Lead Web Developer — Charlottesville, Virginia
Designed and created progress monitoring system for students and teachers.

activities

12-05/2014 **University of Virginia** Teaching Assistant — Charlottesville, Virginia
Instructed labs, graded homework and exams, held recitation and office hours. Courses: Data Structures, Computer Graphics, Graduate Microwave Engineering, and Graduate Microwave Engineering Lab.

2013-2014 **IEEE MTT-S** Undergraduate Fellow — Charlottesville, Virginia
Designed and tested a high impedance substrate for an low power antenna.

2010-2012 **University of Virginia** Athletic Department Tutor — Charlottesville, Virginia
Tutored Calculus I, II, III, Differential Equations, Statistics, Probability, Intro Programming, Software Development, Discrete Math, Digital Logic Design

projects

2014 **BeerToCats.com** — Final Project for Operating Systems
Implemented histogram of oriented gradient (HOG) feature detection and trained a support vector machine (SVM) classifier in Python to detect solo cups, cans, and bottles, ultimately covering them up with a random image.

2014 **COOL Interpreter & Compiler** — Programming Languages
Built the lexer, parser, semantec analyzer, interpreter, x86-64 compiler, and optimizer for an object-oriented pedagogical language using primarily OCaml.

2013 **MindFlow** — Capstone Project
Integrated pressure sensor and Bluetooth microprocessor into hydrocephalus shunt; Developed Android application to collect pressure readings and perform predictive modelling of failure rates using neural networks and gradient descent.

2012 **Image Processor with Built-in Raytracer** — Computer Graphics
Built a command-line version of "The Gimp" in C++ with Beier–Neely morphing; Added raytracing functionality; Optimized raytracer using bounding volume hierarchies; Added interactivity with OpenGL.