

Benjamin Yu

Software Engineer

about

174 22nd Ave, Apt 2
San Francisco, CA
United States

☎ (415) 503-7235
✉ me@ben-yu.com
🌐 <http://ben-yu.com>
in benjamin-yu
🐦 _ben_yu
📷 ben-yu

programming

Golang
Python
Java
ES6/Typescript
React

interests

machine learning, data science, e-sports, generative art

education

B.A.Sc. in Engineering Science

University of Toronto

09/2008 - 04/2013

Major in Electrical and Computer Engineering

Thesis: Mobile Hearing Diagnostics

experience

Twitch

Software Development Engineer II

10/2018 - present

- Commerce - Payments
- Helped launch a machine learning model that scored user's propensity for payments fraud

Amazon

Software Development Engineer II

10/2017 - 10/2018

- Fulfillment by Amazon
- Lead a year-long migration effort to re-architect multiple services from Oracle to DynamoDB
- Amazon Security Certifier

Amazon

Software Development Engineer I

10/2015 - 10/2017

- Fulfillment by Amazon
- Launched Fedex and Ship with Amazon as inbound carriers for the Amazon Partnered Carrier Program

Vantage Analytics

Software Developer

10/2014 - 10/2015

- Marketing Automation and Analytics as a Service for e-commerce
- Integrated our automated ad generation engine with Facebook Ads and Mailchimp
- Helped launch a major pivot of our core product into a real-time metrics dashboard for store owners

Think Research Group

Junior Developer

09/2013 - 10/2014

- Lead development of an order requisition web portal using Angular and Play! Framework
- Launched a diagnostic form builder extension for Chrome, Firefox & Internet Explorer
- Automated medical record data migrations from various legacy systems (SQLServer, InterSystems Cache ...)

AMD

SOC Verification Intern

05/2011 - 08/2012

- Verification infrastructure and development of random testing methodologies for various chip IP's using Perl, C/C++ and SystemVerilog

Sunnybrook Health Sciences Center - Medical Imaging

Developer/Research Assistant

05/2010 - 08/2010

- Conducted a study comparing reperfusion vs. recanalization as an indicator of clinical outcome for stroke patients

certifications

Programming with Google Go

Coursera

11/28/2018

Amazon Internal Security Certifier

Amazon

01/28/2018

coursework

Introduction to Data Science

Amazon Machine Learning University

01/2018 - 02/2018

- Built a simple classifier on an internal customer support request dataset

Speech Recognition

Natural Language Computing - CSC401

03/2013 - 04/2013

- Created a speaker identifier using Gaussian Mixture Models trained over the Mel-frequency cepstral coefficients from the speech waveforms and their phonetic and word transcriptions

Facial Expression Recognition

Machine Learning and Data Mining - CSC411

11/2012 - 12/2012

- Achieved a 77% accuracy on a final dataset of 1000 facial expressions with a SVM with an RBF kernel, grid search and bagging

Ray Tracing

Computer Graphics - CSC418

11/2012 - 12/2012

- Basic raytracer in C++ with anti-aliasing, glossy reflections, basic refraction, soft shadows, area light sources and texture mapping

Operating Systems

Systems Software - ECE353

01/2012 - 04/2012

- Developed features for OS/161, a simple operating system which includes a standalone kernel and simple user-land written in C

- Implemented process management, basic system calls, virtual memory, and a basic hierarchical file system

Battery Sorting Robot

Engineering Design - AER201

01/2011 - 04/2011

- Designed a fully autonomous robot to sort batteries based on size and charge.

- Fabricated essential components including an H-Bridge motor driver, stepper motor driver, infrared sensors, and power supply