

Ryan Min



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TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, SQL, Javascript, Swift, Objective-C, Solidity

Libraries & Frameworks: NodeJS, Flask, Twilio, Angular, Vue, JUnit, Mocha, CockroachDB

Tools & Technologies: AWS, Git, Bash, Jenkins, Docker, Maven, Jira, Terraform, Firebase

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Capital One

May - August 2018

- Implemented >100 credit increase decline reasons into AWS call center using Java, serving 10k customers
- Extended API authorization cycle to 14 days by intercepting expired API calls to automatically renew tokens
- Designed a telephony testing library using Twilio to make calls, validating >50 mock user inputs in Mocha
- Built Jenkins pipeline infrastructure to automate Maven builds and Terraform deployment to AWS Lambda
- Developed chatbot features into the website with Wit.AI and Firebase, giving rich responses to 30 intents

Full Stack Web Developer, Legeci Health

June - August 2017

- Refactored frontend code to respond to mobile platforms with Bootstrap, reducing loading times by 20%
- Built a Wordpress web app with the FB Graph API to automate promotion of blog posts on social media
- Designed website layouts and promotional posters in Adobe Creative Suite to grow millennial user base

PROJECTS

Musify - git.io/vhmBz

- Music transcription service that generated sheet music for audio files and played back notes in real time
- Performed Fourier analysis on audio files in Python to determine frequencies at different time intervals
- Developed a predictive algorithm in SciPy to interpolate note values based on nearby frequency levels

Crypterra - git.io/vpaYM

- Enterprise asset management platform built for secure transactions on the Hyperledger blockchain
- Wrote RESTful backend API in NodeJS to upload existing business Excel data onto blockchain network
- Implemented an Angular frontend for visualizing operating structure and modifying digital assets

VisualEyes - git.io/vx831

- Smart home doorbell system utilizing computer vision to help blind homeowners identify house guests
- Hosted a Flask server to respond to photos of guests taken on doorbell ring through an IoT connection
- Mapped photos to a Cassandra database of known individuals, audibly alerting the user upon a match

Intervue - git.io/vNZqQ

- Immersive interviewing platform using natural language processing and Alexa to deliver practice questions
- Utilized AWS Lambda and NodeJS to offer feedback to 15 speech metrics with Watson Tone Analyzer API

EDUCATION

University of Waterloo, BCS Candidate - Computer Science, Statistics Minor

Wilfrid Laurier University, BBA Candidate - Business Administration, Finance Major

Class of 2022