

DAVID WING

Full Stack Software Developer

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EXPERIENCE

Associate Software Engineer

Capital One – RUBIE Machine Learning Platform

📅 September 2020 – Ongoing 📍 McLean, VA

- Python API work on Machine Learning Platform hosting Card Tech models
- Full stack work in Angular and Node for payment processing web application

Technology Internship Program

Capital One – ATM Division

📅 May 2019 – August 2019 📍 McLean, VA

- Reverse Engineered USB Drivers for ATMs and wrote custom USB drivers. Collected USB packets using the script from the ATM with Wireshark.
- Created a script to run API calls from XFS-CEN API. Reverse engineered the USB signals to be able to run arbitrary code on the ATM and create custom drivers in Python.

Software Engineering Intern

Asurion – Sub-billing Division

📅 May 2018 – July 2018 📍 Nashville, TN

- Worked with back office transactions, streamlining account processing by creating internal tools in Node.js and Python.
- Converted stored procedures into JavaScript microservices that were deployed into production

Software Engineering Intern

Innovative Systems – R&D Division

📅 May 2017 – August 2017 📍 Pittsburgh, PA

- Created Java automation tool used in the deployment of SQL and Oracle database updates and migrations.

Student Information Technology Worker

The Ohio State University – Chemistry Department

📅 April 2016 – November 2016 📍 Columbus, OH

- Created Windows Deployment packages for the University department with Powershell
- Worked as a System admin for RHEL and Raspian deployment

PROJECTS

Car Fuel Optimization App

OHI/O Hackathon

- Created Angular application for Android/iOS that acts as a driving companion app that tracks fuel efficiency and optimal driving habits for a Honda Challenge

Unity Game Development

- Created a 2.5D side scrolling game on the Unity3D platform
- Released on Windows and Android Devices

ABSTRACT

I want to continuously learn and develop my skills by getting exposed to as many new technologies as possible

ACHIEVEMENTS

Inter-Collegiate Programming Competition

- Algorithmic Programming Competition, Represented Ohio State in the East Central Conference Event
- Placed in the top half of participants

Project Euler/Kattis

- Practice algorithmic problem solving on sites such as Project Euler and Kattis. Programs are written for the best performance and space utilization on frequently completed problems

Raspberry Pi Automation

- Developed automated light show for music

Native Android Development

- Music matching/guessing application

STRENGTHS

Full Stack

Backend API

Front-end

Web app development

LANGUAGES

Python

JavaScript

Java

C#

Angular

Typescript

SQL

EDUCATION

B.S. Computer Science and Engineering

The Ohio State University

📅 2015 – 2020

Dean's List for Engineering

📅 2016 – 2017

Morril Excellence Scholarship

📅 2015 – 2020

Engineering Dean's Scholarship

📅 2015