Edwin Yu

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Education

University of Maryland, College Park – *B.S. Computer Science*   Expected May 2021 • GPA: 3.81/4.0

- Honors College, President's Scholarship, CS Departmental Honors
- Relevant Coursework: Data Science, Advanced Algorithms, Computer & Network Security, Multithreading & Distributed Systems, Organization of Programming Languages, Applied Probability & Statistics, Applications of Linear Algebra, Algebraic Structures

Technical Skills

Languages   Java • Python • JavaScript • OCaml • Ruby • HTML/CSS • C

Technologies   Git • Linux • React • Redux • Node • Flask • Spring • Jupyter • Pandas • Docker • AWS

Work Experience

Amazon Web Services – *Systems Development Engineer Intern*   Herndon, VA • Sept - Nov 2020

- Fall intern on the AWS Serverless team

Okta – *Software Engineering Intern*   Bellevue, WA • May - Aug 2020

- Built an internal full-stack tool to allow Okta's security team to mass deactivate organizations engaged in malicious activity
- Reduced time needed to respond to mass abuse incidents from days to minutes
- Wrote extensive unit, functional, API, UI, and Selenium tests to achieve full code coverage and ensure high code quality

Tesla – *Software Engineering Intern*   Palo Alto, CA • Jan – May 2020

- Worked on a web application to accelerate the diagnosis of vehicles using alerts, signals, and configuration values
- Built pipeline to retrain and redeploy machine learning models that identify solutions to diagnostic issues on a weekly basis
- Developed backend system to automatically extract and parse new alert/signal data from monthly firmware releases
- Built email notification system to notify technicians in Gigafactory Shanghai when new diagnostic sessions are created

Capital One – *Software Engineering Intern*   Richmond, VA • Jun - Aug 2019

- Built applications to support the re-platforming and modernization of the company's core customer infrastructure
- Developed a resilient and scalable RESTful API for customer D.O.B queries to meet expected traffic of 450+ transactions/sec
- Built full-stack utility to track daily changes within S3 buckets and simplify EC2 instance rehydration through email notifications

U.S. Army Research Laboratory – *Software Engineering Intern*   Adelphi, MD • Jun - Aug 2018

- Enhanced an internal file hosting service by developing features to guard against anticipated network interferences
- Built scripts to preemptively move data fragments out of unstable nodes and periodically redistribute data across the network

National Institute of Standards and Technology – *Information Technology Intern*   Gaithersburg, MD • Jun - Aug 2016

- Developed a suite of software unit tests to verify that their in-house virtual reality environment (CAVE) ran properly

Projects

M.O.E.G.A., *https://moega.herokuapp.com/*   April 2020

- Won 1st place at CatHacks VI (https://devpost.com/software/moega)
- Developed a live streaming platform to simulate in-person lectures geared towards elementary & middle school students

vBikes, *edwinyu.tech/vBikes*   Oct 2018

- Winner of Capital One's Software Engineering Summit Challenge; top 80 out of 600+ applicants
- Built a web application to visualize key metrics (Station popularity, Monthly trends, etc.) from an LA bike-share dataset

rwBot   Sept 2018

- Created a high frequency trading bot in Python that placed 3rd (2nd in final hour) in Jane Street's Electronic Trading Challenge
- Maximized profit in a simulated market with an algorithm based on ETF and bond trading