Jonathan Wang

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WORK EXPERIENCE

Amazon.com, Inc.   **Summer 2021 - Summer 2023**

Software Engineering Intern (Advertising Identity Team) | Summer 2023   *NYC*
- Full time developer intern focused on professional growth, contributions to innovation on cutting-edge projects, and customer obsession driven development.
- Architected and implemented the prototype for a new Software as a Service solution for advertising identity resolution in AWS, focused on providing a scalable, robust, secure, cost-effective, and user-friendly data processing platform for private advertising clients.
- Leveraged a comprehensive suite of AWS services, including S3, Lambda, DynamoDB, and Redshift to create a serverless data identification pipeline service, along with ECR, Service Catalog, Docker, CloudFormation, and AWS CDK for packaging and distributing the software to clients.

Software Engineering Intern (FireOS Architecture Team) | Summer 2021 - Summer 2022   *Remote*
- Developed a visualization tool using Dash and Vis.js for mapping the FireOS build tree in Python which streamlined the organization's development workflow through improved efficiency in managing dependencies and making modifications to the operating system architecture.
- Researched and prototyped a hardware passthrough implementation in the Android Emulator build to provide a more realistic and complete testing environment for FireOS developers through increased feature support.

Rutgers Center of Alcohol and Substance Use Studies   **Dec 2019 – May 2021**

Research Assistant   *New Brunswick, NJ*
- Designed and compared machine learning models and their interpretability to give researchers insight into the contributing factors of substance abuse on brain development from MRI data. These models included: XGBoost, random decision forests, Tensorflow neural networks with automated Bayesian hyperparameter optimization, and other popular models.

Rutgers Wireless Information Network Laboratory   **Summer 2018**

Research Intern   *New Brunswick, NJ*
- Research on wireless signals for mapping indoor environments. Primarily worked on data/signal processing methods.

PROJECTS

RKM - Recipe Sharing Social Media Application   **Spring 2022**

Software Engineering Final Project
- Lead designer and product owner for a team of 5 to build a social media application for professional and amateur chefs to share recipes. Tools: React Native, REST API, Flask, MongoDB

RUCONNECT - University MARKETPLACE APPLICATION   **Fall 2020**

Rutgers Hackathon Project
- Built an e-commerce website to allow students within Rutgers to trade college items. Tools: ReactJS, Flask, MongoDB

EDUCATION

Rutgers University, New Brunswick   **May, 2024**

B.S. and M.S. in Computer Science   *New Brunswick, NJ*
- *Summa Cum Laude* and Engineering Honors Academy. GPA: 3.91 (B.S.) and 3.86 (M.S.)

SKILLS

Technical Skills: Agile development; CI/CD; Test Driven Development; Scrum; DevOps; Cloud; Databases; ML/AI;

Tools: Python; Java; Typescript; C; HTML; CSS; JavaScript; SQL; Git; Jira; JUnit; AWS; AWS CDK; MongoDB; REST; React; Tensorflow; Keras; Docker; Django; Flask; Node.js; MySQL; Unity

Soft Skills: Strategic planning; Problem solving; Software architecting; Communication; Collaboration; Growth driven