Jonathan Wang

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WORK EXPERIENCE

Amazon.com, Inc.   **Summer 2021 - Summer 2023**
Software Engineering Intern (Advertising Identity Team) | Summer 2023   *NYC*
- Architected the prototype of a new Software as a Service solution for advertising identity graph resolution in AWS, providing a scalable, cost-efficient, and user-friendly data processing platform for clients.
- Collaborated with major stakeholders across all design stages, ensuring alignment with client needs, business requirements, and resource constraints whilst maximizing overall user experience.
- Developed the serverless data identification pipeline service in Java with AWS technologies like S3, Lambda, DynamoDB, and Redshift as the infrastructure backbone.
- Packaged and distributed the software solution to clients using AWS CDK, ECR, Service Catalog, and CloudFormation with Docker and Kubernetes.

Software Engineering Intern (FireOS Architecture Team) | Summer 2021 - Summer 2022   *Remote*
- Led development of an internal visualization tool for mapping the FireOS build tree dependencies using Dash and Vis.js, enhancing FireOS workflow efficiency by reducing dependency management time by ~25%.
- Researched and prototyped a hardware passthrough implementation in the Android Emulator build, providing a more complete testing suite for developers through introducing increased feature support.

Rutgers Center of Alcohol and Substance Use Studies   **Dec 2019 – May 2021**
Research Assistant   *New Brunswick, NJ*
- Designed and benchmarked machine learning models (e.g. gradient boosted decision trees, random decision forests, neural networks) on MRI data, providing researchers with insights into the contributing factors of substance abuse on brain development and reaching prediction accuracies of up to ~93%.
- Established machine learning model interpretation methods consolidating variable importance plots, LIME, and partial dependence plots to improve researchers understanding of substance abuse data.

Rutgers Wireless Information Network Laboratory   **Summer 2018**
Research Intern   *New Brunswick, NJ*
- Engineered signal processing algorithms that enhanced the accuracy of wireless-based indoor mapping.

PROJECTS

DribbleDynamics - NBA Player Stat Visualizer   **Spring 2024**
Data Visualization Project | ReactJS, D3.js, Flask, Pandas, MySQL, AWS
- Primary architect and developer for a team of 3 in the development of a data visualization web app for tracking insights into NBA players' season statistics, career progressions, and playstyle performances.
- Prioritized robust data presentation through interactive visualizations, intuitive user interfaces, and performative data visualization metrics, enhancing user engagement and comprehension of NBA insights.

[RKM](RKM) - Recipe Sharing Social Media Application   **Spring 2022**
Software Engineering Final Project | React Native, Postman, Flask, MongoDB, Jira
- Lead designer and product owner for a team of 5 to build a recipe sharing social media application, focused on providing inspiration and kitchen based quality of life features for chefs of all levels.

EDUCATION

Rutgers University, New Brunswick   **Sep 2019 - May 2024**
B.S. and M.S. in Computer Science. GPA: 3.91 (B.S) / 3.86 (M.S)   *New Brunswick, NJ*

SKILLS

Programming Languages: Python; Java; Javascript; Typescript; HTML; CSS; SQL; C; C++; R; Bash;
Technical Skills: Agile Dev; Full Stack Dev; DevOps; Git; Software Architecture; React; REST; Flask; Cloud Computing; AWS; Machine Learning; Artificial Intelligence; Tensorflow; Databases; MySQL; MongoDB;