

# Jonathan Wang

wangjon830@gmail.com ❖ [wangjon.com](http://wangjon.com) ❖ (732) 284-1678 ❖ Greater NYC Area

## WORK EXPERIENCE

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### 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, focused on providing a scalable, cost-efficient, and user-friendly data processing platform for 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 dependencies which streamlined the organization's workflow through improved efficiency in managing the OS architecture.
- Researched and prototyped a hardware passthrough implementation in the Android Emulator build to provide a more 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 benchmarked machine learning models trained on MRI data to give researchers insight into the contributing factors of substance abuse on brain development. These models included: gradient boosted decision trees, random decision forests, neural networks, and other popular models.
- Developed machine learning model interpretation methods involving the use of variable importance plots, local interpretable model-agnostic explanations, and partial dependence plots

### Rutgers Wireless Information Network Laboratory

Summer 2018

*Research Intern*

New Brunswick, NJ

- Developed signal processing algorithms for research on the use of wireless signals for indoor mapping

## PROJECTS

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### [DribbleDynamics](#) - NBA Player Stat Visualizer

Spring 2024

*Data Visualization Project*

- Built a data visualization web app for tracking insights into NBA players' season statistics, career progressions, individual game performances, and playstyle comparisons. Tools: ReactJS, D3.js, Flask, Pandas, MySQL, AWS

### [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 chefs and home cooks to share, critique, and stock 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.

## EDUCATION

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### Rutgers University, New Brunswick

May, 2024

B.S. and M.S. in Computer Science. GPA: 3.91 (B.S) / 3.86 (M.S)

New Brunswick, NJ

## SKILLS

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**Programming Languages:** Python; Java; Javascript; Typescript; HTML; CSS; SQL; C; C++; R

**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;