RICHARD JIANG

Software Engineer | Pre-Doctoral Instructor

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% https://richardjiang.dev

WORK EXPERIENCE

2x Software Engineer Intern Microsoft Corporation

1 06/2019 - 09/2019; 03/2020 - 06/2020

Seattle, WA

First Internship

- Delivered an Office out of box experience to millions of new users helping them configure Office more easily
- Improved the product by collaborating across teams with other developers, product managers, and designers
- Lead design and exit reviews as a part of an iterative development cycle
- Worked in React.js, C#, and TypeScript to implement efficient, extensible, and testable code
- Created data stories and telemetry to monitor and analyze the health of services
- Conducted A|B experiments to determine the business effectiveness and future improvements of implemented features

Second Internship

- Planned a data processing pipeline used to quickly productionalize ML workflows from scratch and built a minimum viable product in 12 weeks
- The pipeline delivered predicted attributes for engineers and data scientists to use in other features
- My design leverages Azure DataBricks to give data scientist powerful libraries through PySpark, while enabling distributed computation for their models
- The design focused on easy onboarding and configuration of ML models
- Worked with a data scientist and manipulated unbalanced data in Python to onboard the first ML model onto the platform
- Improved the efficiency of data scientists, allowing them to easily deliver timely predictions and scheduling the retraining of models

Software Development Engineer Intern

Amazon Web Services

(1) 06/2018 - 09/2018

- **♀** Seattle, WA
- Designed a control plane and system of records with a focus on scalability and maintainability
- Implemented my design with AWS Lambda, S3, APIGateway, CloudFormation, and other related services
- Ensured maintainability of the code with unit test using JUnit and Mockito
- Deployed code uniformly across varying environments using continuous deployment tools
- Overall, the project will save 10+ maintenance hours a week while improving the customers experience

Pre-Doctoral Instructor

University of Washington

1 06/2020 - 09/2020

- Seattle, WA
- Designed and instructed a 9 week course of data structures, algorithm analysis, parallelism, and concurrency
- Lead and organized a team of 8 teaching assistants
- Adapted course to a new remote online offering with active learning components
- Managed course infrastructure consisting of various tools like Google Compute Engine and Gitlab

EDUCATION

B.S. in Computer Science University of Washington

(1) 09/2016 - 06/2020

Seattle, WA

- 3.90 Cumulative GPA
- Dean's List (All Quarters)

M.S. in Computer Science University of Washington

09/2020 - Present

Seattle, WA

Expected graduation: 06/2021

COURSEWORK

- Discrete Math, Statistics, & Matrix Algebra
- Software Design & Implementation
- Data Structure & Parallelism
- Algorithms
- Systems Programming
- Data Visualization
- Data Management
- Operating SystemsComputer Networks
- Computer Security
- Artificial Intelligence
- Machine Learning
- Deep Learning

SKILLS & KNOWLEDGE

Programming Languages

- Java
- C
- C#Python
- HTML & CSS
- JavaScript
- YAML
- R
- Datalog
- SQL/SQL++
- TypeScript

Libraries & Frameworks

- JUnit
- Mockito
- Lombock
- Angular.js
- Express.js
- Knex.js
- D3.jsNode
- jQueryReact.js
- Gatshy
- lest
- PvTorch
- NumPv

Tools & Platforms

- PTEX
- Git
- AWS
- Unix CLI
- SQL Server
- Netlify
- GCE
- Postman