

RICHARD JIANG

Software Engineer | Aspiring Educator

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WORK EXPERIENCE

Software Engineer Intern

Microsoft Corporation

📅 06/2019 – 09/2019

📍 Seattle, WA

- Delivered a 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

Software Development Engineer Intern

Amazon Web Services

📅 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
- Developed code with an emphasis on the SOLID principles
- Ensured maintainability of the code with unit test using the JUnit and Mockito frameworks
- 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

Teaching Assistant

University of Washington

📅 09/2018 – Present

📍 Seattle, WA

- Taught a curriculum of data structures, algorithm analysis, and parallelism.
- Led a weekly session of 30 students and communicated topics concisely
- Worked with students one on one through weekly office hours

PROJECTS

InstaMessage

- Created an authentication portal through a RESTful API using Node.js and the Express framework
- As a part of the API, used Knex.js to query and manipulate our database

Deal-Finder

- Developed an Alexa skill to find deals using the Alexa Skills Kit
- Designed our model to be interactive with intents, slots, and synonym
- Used Node and AWS Lambda for the backend support of the skill

EDUCATION

Combined Bach. & Mast. of Science in Computer Science

University of Washington

📅 09/2016 – 06/2021

📍 Seattle, WA

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

COURSEWORK

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

SKILLS & KNOWLEDGE

Programming Languages

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

Libraries & Frameworks

- | | |
|--------------|--------------|
| • JUnit | • Mockito |
| • Lombok | • Angular.js |
| • Express.js | • Knex.js |
| • D3.js | • jQuery |
| • Node | • React.js |
| • Gatsby | • Jest |
| • PyTorch | |

Tools & Platforms

- | | |
|-------------------|------------|
| • \LaTeX | • Git |
| • AWS | • Unix CLI |
| • SQL Server | • Netlify |