

# Yuan Chen

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## EDUCATION

### Rice University (GPA: 3.78/4.0)

Houston, TX

Master of Computer Science

Aug.2021-Dec.2022

Core courses: *Software Design Pattern, Database System, Advanced Web Development*

### Virginia Tech (GPA: 3.53/4.0)

Blacksburg, VA

Bachelor of Science in Computer Science and Minor in Business

Aug.2017-May.2021

Core courses: *Software Design & Data structure, Computer System, Computer, Algorithm, Software Engineering*

## SKILLS

**Programming:** Java, Python, HTML, JavaScript, Shell script, Scala, C, R, CSS, SQL, Ruby

**Software:** MATLAB, Eclipse, Visual Studio Code, Unity, JetBrains, Git, R Studio

**Framework:** Git, Linux, Django, Junit, Flask, TensorFlow, PyTorch, React, Angular, Spark

## WORK EXPERIENCE

### Barclays

Whippany, NJ

*Backend Software Engineer*

Feb. 2023–present

- Designed and developed a **Spark** Aggregator tool using **Scala**

### Amazon Web Services, Inc

Seattle, WA

*Software Dev Engineer Intern*

May. 2022–Aug. 2022

- Designed and developed a **specification** and code comment validation tool using **Python**
- Implemented a parser/writer for **Markdown**, **RFC** and **TOML** files to exact/generate comments
- Realized **React Webpack** and **JSON** file and bundle using Python to improve **User Experience**
- Applied and Validated **AWS Encryption SDK** library among **Python**, **JavaScript** and **.NET**

### Forakaia Corporations

Irvine, CA

*Software Developer*

May. 2020–Jul. 2020

- Designed and developed a resume and job matching full stack website based on **Django** and **Bootstrap**
- Built database with **PostgreSQL** to store user information and device information
- Constructed a website frontend using **HTML**, **CSS**, **JavaScript**, and **Bootstrap** framework to achieve features including mobile-responsive
- Tokenized resumes and job descriptions using **NLTK** and implemented **Cosine Similarity Algorithm** with model training to recommend users the resume-matching jobs with 70%+ accuracy

### Virginia Tech

Blacksburg, VA

*Undergraduate Teaching Assistant*

Jan. 2021-May. 2021

- Assisted professor in teaching **Intermediate Software Engineering** by developing course material, interacted with students in class, and online to answer their questions, grading assignments and exams
- Collaborated with my fellow TAs using Google Docs to create a **Knowledgebase** of the course for office hours

## PROJECT EXPERIENCE

### Capstone Project Tech Staff Inventory Management System

Jan. 2021 – May. 2021

- Designed an inventory management system including device tracking and IP assignment using **Django** based on **MVC** framework to achieve different levels of **User Authentication System**
- Utilized **ECharts** to show statistical data like devices in story and used **AJAX** to update charts with data in real-time.
- Built database with **MySQL** to store user device information and migrated existing data from original database
- Managed the **Sprints** and workloads using **Trello** to collaborate following **Scrum** Model using **Agile Development** techniques to satisfy customers and completed , fully tested the project under budget on time and met the scope.
- Containerized MySQL and Django using **Docker** and managed using **Rancher** and **Kubernetes** on university's cloud

### JPMorgan Chase Software Engineering Virtual Experience Program Participant 2021

Participated in the open access JPMorgan Chase Software Engineering Virtual Experience Program with Forage. Tasks Completed include:

- Developed Interface with a stock price data feed using **Python**, **Git** and **REPL**
- Constructed **UI components** in the frontend using **React**, **TypeScript** to visualize stock price data feed to traders