

CHI FENG

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EDUCATION

Cornell Tech, New York, NY

May 2022

Master of Engineering in Operations Research and Information Engineering | GPA: 3.8

University of California, Davis, CA, Davis

April 2021

Bachelor of Science in Applied Mathematics | GPA: 3.7

TECHNICAL SKILLS

Coding Language:

Python, JavaScript, TypeScript, Java, C++

Other Tools:

Angular, React, Node.js, NestJS, Git, HTML, CSS/SCSS, AWS, SpringBoot, Redis, MySQL, GraphQL, Numpy, Sklearn

WORK EXPERIENCE

Antra.Inc, Web Developer, Remote

Apr 2023 – Present

- Designed and developed web apps with the use of Angular, HTML5, CSS3, TypeScript, and NestJS.
- Created reusable Components, custom directives and pipes, and built Reactive Forms with validators.
- Cooperated with NestJS Restful API to fetch and deliver data.
- Implemented lazy loading on modules and route resolver to improve app performance.
- Collaborated closely with UX/UI designers to create an intuitive and visually appealing user interface.
- Implemented authentication and authorization processes with JWT token, route guards, and HttpClient Interceptors.

Amazon Luna, Software Development Engineer, Irvine, CA

Aug 2022 – Jan 2023

- Developed front-end (React) web features including a complete rewrite of the Luna developer portal.
- Implemented automated testing to achieve continuous integration and delivery by increasing unit test coverage.
- Applied integration tests that eliminate QA test time and achieve CI/CD for the pipeline deployment.
- Contributed to back-end features including new API validations in the Luna game publishing service.
- Utilized AWS services including S3, CloudWatch, and Lambda to deliver AWS resources for use in production code.
- Participated in daily scrum meetings and code reviews, providing constructive feedback.

Aerofugia Aircraft, Research and development Intern, Chengdu, China

Jun 2020 – Oct 2020

- Developed a mathematical model to simulate local interaction of Unmanned Aerial Vehicle swarm.
- Designed UAV information sharing patterns using message queues to minimize the computational burden.
- Applied the developed model to present common steering behaviors of autonomous swarms to achieve complex flock tasks.
- Conducted a 20-pages industry research report.

PROJECTS

Flash Sale System, (SpringBoot, Mybatis, MySQL, Redis, RocketMQ, JMeter, Sentinel)

Fall 2021

Built a flash sale website from scratch using SpringBoot.

- Built the project environment with SprintBoot; applied MyBatis to generate MySQL database tables.
- Integrated Redis caching and message queue middleware (RocketMQ) to process requests with high concurrency and large flow.
- Incorporated Alibaba Sentinel to throttle extensive requests and improved the stability and reliability of the system.
- Stimulated queries and performed stress test using JMeter.

Large-scale Image Search Engine, (Python, NumPy, Pandas, Sklearn)

Fall 2021

Built a ranking framework for relevant images with given natural language queries

- Extracted numerical features from 10,000 images using pre-trained Residual Network (ResNet) and performed PCA.
- Applied natural language processing and converted text to numerical features using the word2Vec technique.
- Trained models like kernelized ridge regression and SVM to make predictions and evaluate performance.
- Used different distances metrics to rank relevant images with an accuracy of 0.5.

Citi Bike Stations Stationary Analysis, (Python, NumPy, Pandas)

Spring 2021

Modeled the Markov Chains to study the availability of bikes in CitiBike stations

- Cleaned and identified relevant data from millions of trip data and modeled with Discrete Markov Chain.
- Estimated the steady state of the available bikes and the transition probability for different time blocks.
- Predicted ride patterns and popularity among different CitiBike stations.