# CHI FENG

Seattle, WA| 7324276155 | chifengiris@gmail.com
PersonalWeb | GitHub | LinkedIn

## EDUCATION

**Cornell University**  Aug 2021 – May 2022
Master of Engineering in Operations Research and Information Engineering| GPA: 3.8/4.0  New York City, NY

**University of California, Davis**  Sep 2017 – Apr 2021
Bachelor of Science in Applied Mathematics | GPA: 3.7/4.0  Davis, CA

## TECHNICAL SKILLS

**Coding Languages:** Python, JavaScript, TypeScript, Java
**Other Tools:** Angular, React, HTML, CSS/SCSS, Node.js, Express, Nest.js, Redux, Git, AWS, SpringBoot, MySQL, MongoDB, Redis, GraphQL, REST API, JMeter, Jest, Jasmine, Cypress

## WORK EXPERIENCE

**Antra.Inc, Frontend Developer,** Naperville, IL  Apr 2023 – Oct 2023
- Developed web applications using Angular, TypeScript, and NestJS, prioritizing responsiveness and visual appeal.
- Created reusable components, custom directives, and pipes, and built reactive forms with validators.
- Utilized NestJS to design RESTful API routes and endpoints, optimizing data retrieval and delivery.
- Implemented lazy loading on modules and route resolver to improve app performance.
- Developed an auth service with JWT tokens, route guards, HttpClient Interceptors, and Passport.js.
- Utilized MongoDB with Mongoose ORM to generate and manage user data, ensuring scalability and data integrity.
- Streamlined application deployment using Jenkins, facilitating CI/CD for feature updates and releases.

**Amazon.com, Software Development Engineer,** Irvine, CA  Aug 2022 – Jan 2023
- Designed and developed web application for Amazon's cloud gaming service with TypeScript, JavaScript, and React.
- Implemented automated testing to achieve continuous integration and delivery (CI/CD) using Jest and Cypress.
- Leveraged Amazon API Gateway and AWS Lambda for API management, ensuring seamless data flow.
- Utilized AWS services including S3 and CloudWatch to monitor pipeline health.
- Worked across teams including engineers, designers, and project managers to deliver high quality features.

**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 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**, (Java, SpringBoot, Mybatis, MySQL, Redis, RocketMQ, JMeter)  Dec 2022
Built a flash sale website from scratch using SpringBoot.
- Applied MyBatis to generate MySQL database tables.
- Integrated Redis caching and message queue (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.

**Expedia Clone**, (Java, JSP, JUnit, jQuery, AJAX, Redis, Tomcat, Nginx)  Oct 2022
Developed a dynamic and user-friendly travel website using JavaWeb technologies.
- Utilized JavaServer Pages (JSP) and Servlets for building the web pages and handling server-side logic.
- Configured and deployed the application on an Apache Tomcat server to ensure high performance and reliability.
- Utilized Nginx as a reverse proxy server to improve website performance and handle incoming requests efficiently.
- Implemented robust unit tests using JUnit to ensure the reliability and functionality of critical components.
- Implemented user authentication and authorization using cookies and sessions to enhance security.