

EDUCATION

- **Northeastern University** Seattle, WA
Master of Science in Computer Science; GPA: 3.54 *Sep. 2016 – Dec. 2018*
Courses: Algorithms, Object-Oriented Design and Analysis, Computer Systems, Fundamentals of Computer Networking, Database Management, Cloud Computing, Web Development.
- **Nanjing University of Aeronautics and Astronautics** Nanjing, China
Bachelor of Engineering in Automation; GPA: 3.60 *Sep. 2012 – Jun. 2016*
Courses: Advanced Mathematics, C Programming, Database Technology and Application, Automatic Control Theory, Basic Computer Software Technology.

EXPERIENCE

Expedia May. 2018 – Aug. 2018

Working as a Software Dev Engineering intern in San Francisco

- Achieved Zero-Downtime ECS cluster updates by implementing new update methodology
- Created a lambda function to automate the draining process on EC2 instances when scaling down cluster
- Used open source visualization tool, Grafana and Datadog to monitor the CPU, memory health and size change of AWS ECS clusters.
- Reviewed and redesigned the current ECS cluster CloudFormation template to reduce dependency and serve as a standard template for all teams to use

SKILLS

- Proficient in Java and Javascript programming, familiar with Python and C programming.
- Front end: HTML, CSS/Flexbox, JavaScript(ES6), jQuery, React/Angular, Bootstrap/Semantic UI.
- Back end: Node.js, Express, NPM/YARN, RESTful APIs, Java Spring Boot.
- Experience with AWS(EC2, ECS, CloudFormation, Lambda, VPC, S3, IAM)
- Proficient in object oriented analysis, design, and programming.
- Strong knowledge in Algorithms and Data Structures.
- Familiar with Internet architecture and Network programming (TCP/IP, DNS, HTTP, 802.11, etc.).
- Other technologies: Docker, Jenkins, Mysql, ETL, MongoDB, Linux, JUnit, Jasmine, Git, OAuth

PROJECTS

Personal website: <http://liangzhang.info/> (additional projects, details and links.)

YelpCamp <https://tranquil-brushlands-23736.herokuapp.com/>

YelpCamp is a fully-functioning website with responsive design, data persistence and user authentication.

- Designed the front end with html,css,javascript and Bootstrap.
- Used Node.js, Express and other NPM packages to design the RESTful API and MongoDB/Mongoose to implement data persistence.
- Utilized Passport.js, express-sessions to implement register, login function and user authentication.
- Deployed the website by using Heroku and mLab.

Patient Network <https://github.com/liangnuaa/PatientNetwork>

Patient Network is a database project designed to help patients to retrieval physicians and hospitals information

- Designed 10 classes based on several open physician, hospital and payment database.
- Wrote several SQL and advanced SQL to get the information for presenting.
- Used Java Servlet to design backend and Jsp to design the frontend of the presenting website.
- Designed 5 ETL graphs to provide insightful business information.

Dribbble Android Application <https://github.com/liangnuaa/Dribbble>

Dribbble is a community for showcasing user-made artwork.

- Implemented several features of dribbble website based on navigation drawer UI and connected to read data by dribbble API.
- Designed a bucket function which you can add your favorite shots to bucket(favorite).
- Added a share feature where you can share your dribbble data to other applications.
- Used OAuth to achieve token-based authentication and login function.