

HAOLIANG CHEN

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EDUCATION

Northeastern University, Seattle, WA September 2019 - May 2021 (Expected)
Candidate for a Master of Science in Computer Science GPA: 4.0
Related Courses: Programming Design Paradigm, Algorithms, Web Development, Data Mining

Zhejiang University, Zhejiang, China September 2015 - July 2019
Bachelor of Engineering in Measurement Control Technology and Instruments GPA: 3.56
Related Courses: Program Design and Data Structure, Principle of Database System, Network Technology, Object-Oriented Programming, An Introduction to Software Engineering

TECHNICAL KNOWLEDGE

General: Linux, Git, AWS, Docker, Kubernetes, REST API, GraphQL
Front End: HTML, CSS, JavaScript, React, Redux, Bootstrap
Back End: Node.js (express, hapi), Python (Django, Flask), Java, C++, C
Database: MongoDB, MySQL, SQL Server
Tools: Jenkins, Jira, Confluence, Postman, Consul, Vault

EXPERIENCE

Expedia Group Software Development Engineer Intern June - August 2020

- Developed UI with Node.js and React to handle 8 CLI tasks on 13 agents
- Reduced MTTR (mean time to resolution) by 90%
- Used Consul for service discovery and Vault for secret management

PROJECTS

Learn CS - Collections of Resource for Self Learners (code, website) May - July 2020

- Collected 13 courses, 13 subreddits and 10 YouTube channels with 18 tags in computer science
- Built the website with React and Gatsby, and managed data with GraphQL
- Acquired 2,157 users on the first day

Prediction of Graduate Programs in Computer Science Admission March - April 2020

- Collected 4,702 pieces of data on admission results of graduate programs in computer science
- Trained a binary classifier to predict whether a candidate will be admitted to or rejected by a university with an accuracy score of 0.745
- Built a microservice with Flask and Swagger UI

Gesture Based Music Notation System September - November 2019

- Achieved pattern recognition on input gestures with the nearest neighbor matching system using Euclidean distance
- Accomplished different reactions to the same gesture in different contexts
- Trained 8 prototype shapes and stored the results in a local file

Punctuation Prediction System February - June 2019

- Designed a punctuation prediction system on unpunctuated text with two pre-trained language models: OpenAI GPT and BERT
- Achieved F_1 scores of 0.602 (OpenAI GPT-based system) and 0.732 (BERT-based system) on the test set Europarl v7