

Chen Gu

(617)-899-7626 gu.che@northeastern.edu

EDUCATION

Northeastern University

GPA:3.5/4.0 **Boston, MA**

Master of Science in Computer Science

Dec 2020

Relevant Coursework: Object-Oriented Design, Algorithm, Web Development, Computer System, Database Management, Mobile Application Development, Computer Networks

Northeastern University

Boston, MA

Bachelor of Science in Business Administration

May 2018

Concentration: Management Information System & Finance

TECHNICAL SKILLS

Programing languages: Java, Python, C#, C, JavaScript, HTML, CSS, Elixir

Database: MySQL, PostgreSQL, AWS RDS, AWS S3, Hive

Framework: React.js, Phoenix, .Net, Knockout, jQuery, Spring, Spark

Tools: Linux, Git, Jenkins, Maven, Postman, Tomcat, Jira, TFS, Azure DevOps, Cloud Foundry

WORK EXPERIENCE

Philips

Cambridge, MA

Software Development Engineer Coop

Jan 2020 - Aug 2020

- Participated in **cloud-based** framework implementation for the project under patient Monitoring that enables predictive analytics for multiple connected healthcare application
- Implemented new features in C# on-prem application, enhanced interactive cloud application using Knockout.js
- Analyzed and fixed 20 security vulnerabilities for both on-prem application and cloud application
- Developed and implemented IAM onboarding scripts in python for test team
- Composed and improved various documents including feature spec, deployments, and compliance

State Street Corporation

Boston, MA

Data Analyst Intern

Jun 2016-Dec 2016

- Participated in client data migration projects and improved the quality and accuracy of Client reference data by 20%
- Improved reports procedures and saved five hours of manual work every week
- Processed an average of ten requests every day, created and corrected data elements on the Salesforce platform

ACADEMIC PROJECTS

Inventory Management System

Boston, MA

- Developed a web ERP application to calculating ratios, manipulate CRUD with GAPP accounting principle applied
- Designed and built schema in MySQL on **AWS RDS**, applied stored procedures and triggers to facilitate order manipulation
- Built the web interface using **Bootstrap**, structured the diagram and chart using google chart library

NewsBee Forum Web Application

Boston, MA

- Developed a web application for individuals to read news along with peer commentators
- Built the web interface using **React.js**, Used **Phoenix** framework for web application, coded in **Elixir**
- Structured the relational database (**Postgres**) to capture and store user information and user data
- Implemented server to server external API connection logic to retrieve news from third-party libraries

Diglett Chat Application

Boston, MA

- Built a web-based online chatting application that supports 500 users online, deployed the service locally using **Tomcat**
- Created **RESTful** API with Java, structured web interface using **ReactJS** framework
- Implemented **Hibernate** for ORM with the **MySQL** database and deployed on **AWS RDS**

Roll Own CDN

Boston, MA

- Built a small content delivery networks(CDN) in python, used multiple **AWS EC2** server as original and replica server
- Implemented DNS server dynamically respond to client the best replica server, constructed DNS packet from scratch
- Developed an LRU cache mechanism in HTTP server that effectively fetches content from the origin server
- Ranked top 3 fastest CDN in performance competition in class