Elaina Huang

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EDUCATION

NEW YORK UNIVERSITY   **New York, NY**

M.S. in Computer Science   Jun 2021 - May 2023

Relevant Coursework: Principles of Database Systems, Principles of Operating Systems, Introduction to Computer Networking, Network Security, Cryptography, Introduction to Machine Learning, Cloud Computing, Algorithm 1&2

UNIVERSITY OF NORTH CAROLINA AT PEMBROKE   **Pembroke, NC**

B.S. Major in Psychology   Aug 2014 - May 2018

SKILLS

Languages:	C++, Python, C, C#, Java, PHP, SQL, JavaScript, Shell Scripting, Latex
Tools:	AWS Service, Git, Docker, Kubernetes, GDB Debugger,YAML, Unity
Databases:	MySQL, PostgreSQL, DynamoDB, MongoDB
Web Development:	Bootstrap, HTML5, CSS3, React, Node.js, Spring Boot

PROJECTS

AWS CONCIERGE CHATBOT, SMART ALBUM AND STREAM SERVICE   Jan 2022 - May 2023

- Created a Concierge Chat Bot in an AWS project:
    - Hosted in S3, leveraging user input to interact with AWS services.
    - Utilized AWS Lambda functions to trigger Amazon Lex based on user preferences.
    - Gathered the top 5 user preferences using the OpenSearch service, populated from DynamoDB.
- Developed a Smart Album Service:
    - Hosted in S3 with voice search capability, allowing users to convert speech to text using Amazon Transcribe.
    - Deployed through AWS CodePipeline and distributed through CloudFormation.
- Designed an application for Stream Service:
    - Hosted through EC2, providing access to S3 for streaming data.
    - Enabled video conferencing using Amazon Chime SDK.
        - Tech stack: AWS, Javascript, Python, DynamoDB, YAML

QUORA CLONE FULL STACK   Sep 2022 - Dec 2022

- Built a Quora clone of a Q&A website which gives users the ability to tag the question using a 3-level topic hierarchy.
- Developed a user management module for users, supporting sign up, login, upload patient's demographic information, availability and documents.
- Developed an appointment management module, enabling appointment searching, sorting, scheduling and modification.
- Created database schema from scratch to store users information and acquisition data on MySQL.
- Designed SQL procedures that calculate patients priority rank score and match patients with available appointments, increasing efficiency by 33% compared with random assigning mechanism.
        - Tech stack: PHP, MySQL, HTML, CSS, Spring Boot

PASSWORD CRACKERS   May 2022 - Aug 2022

- Built an online sha256 password cracker in python that cracks the user's login password by sending POST requests to the website to try to login with the target username and a list of commonly used passwords from a txt file of the user's choice.
        - Tech stack: C++, Shell Scripting, RESTful API

WORK EXPERIENCE

SENIOR BUSINESS ANALYST, JP MORGAN CHASE   Dec 2018 - Sep 2020

- Improve data quality to train machine learning models and increase the prediction accuracy by 90% to provide better payment product services.

VOLUNTEERING

THE CITY TUTORS (NON-PROFIT)

Tutor   June 2019 – Sep 2019

- 1 on 1 tutored beginner programming students and other underrepresented groups to write clean, readable Python Code.