

BRIAN CHENG

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EDUCATION

The University of Texas at Austin

Austin, Texas

Master of Science in Computer Science, GPA 3.72/4.00

2023 – May 2025(Expected)

- Relevant Courses: Data Structures and Algorithms, Operating System, Compiler, Machine Learning, Visualization

The Pennsylvania State University

University Park, PA

Bachelor of Science in Computer Engineering, GPA 3.66/4.00

2018 – 2021

WORK EXPERIENCE

Visa Inc.

March 2022 – Present

Software Test Engineer

Denver, CO

- Develop automation scripts using **TypeScript** and **JavaScript** with **REST API** to execute the transactions of the virtual ATM, reducing manual testing time by 32%
- Build REST API automated testing with **Java** and **Karate** Framework to replace internal API testing framework for Visa Debit Core Processing System
- Develop test scripts for web applications using **Selenium**, **Java**, and **JavaScript** to enhance the coverage by 20%
- Design and execute regression and functional tests for thousands of ATM transactions

Allianz Life Insurance

July 2019 – Aug. 2019

Software Engineer Intern

Taipei, Taiwan

- Developed and implemented **Python** and **Selenium**-based automation tests for company websites and applications, enhancing functional testing efficiency and reducing manual testing time by 25%
- Designed and built a **Python**-based web scraping tool, integrating NLTK and Jieba to analyze over 10,000 online reviews, providing actionable insights for product improvement

PROJECTS

Location Sharing Webapp | *JavaScript, React.js, Node, Express, MongoDB, REST API*

- Developed a full-stack web application enabling location sharing between users, utilizing **React** for the frontend and **Express.js** for the backend
- Designed and built REST APIs for image processing and user authentication, enhancing security and performance through efficient **Express.js** and **Node.js** integration
- Implemented comprehensive CRUD operations, seamlessly connecting the backend to a **NoSQL** database (MongoDB), ensuring robust data management and retrieval

Microservice Communication App | *Golang (Go), Rest API, MongoDB, Docker*

- Developed a number of microservices in **Go** that communicate with one another with REST API, RPC, and gPRC
- Implemented a robust broker service as the single point of entry into the **Docker**-managed microservice cluster, streamlining communication and load balancing across services
- Implemented a logging service that connected to a **MongoDB** database, an authentication service that connected to a **Postgres** database, and a mail service which converted the JSON payload to a formatted email and transmitted it

Meerya LLC UWB Smart Horn | *C/C++*

- Designed the prototype of a cost-effective warning system that enabled vehicular communication in warehouses to prevent collisions by integrating Meerya's smart horn with sensors equipped with ultra-wideband technology
- Developed the horn's embedded software program in **C** to interact with the ultra-wideband module's API for real-time collision warnings and distance calculation

TECHNICAL SKILLS

Languages: Python, C, JavaScript/TypeScript, Java, Golang, HTML/CSS

Frameworks & Database: React, Node.js, Express.js, Karate, Selenium, SQL, MongoDB