Jacob Chan

Github: github.com/jcbchndev
Portfolio: jcbchndev.me
Email: jcbchndev@proton.me
Cellphone: +1 860-710-5626

PROFESSIONAL EXPERIENCE

- **Optum/UnitedHealth Group** — Telecommute
  TDP Program Associate — *May 2022 - Present*
  - **Role**: Fullstack Software Engineer
  - **Communication Platform**: Building and testing a web and mobile communication platform for virtual health visits for clients with Angular and RESTful API's.

    Impact: Ensuring seamless virtual experience for clients seeking a modern method of healthcare with a quality, peer reviewed, and thoroughly tested platform.

- **The Travelers Companies** — Hartford, CT/Telecommute
  Associate Software Engineer (Part-time) — *Aug 2021 - May 2022*
  - **Role**: Backend RESTful API Developer
  - **Search Engine Refactor**: Refactored existing searching application with type-ahead and filtering functionalities with Elastic Search and MongoDB.

    Impact: Provided a more intuitive searching experience to customers. End-to-end testing estimated around 2 seconds saved per search.
  - **Database Migration**: Organized migrations of 10+ microservices utilizing on-premise Mongo databases to Mongo Atlas databases (Cloud based database).

    Impact: Reduced overall data storage consumption through database cleanup and reorganization. Provided teams seamless transition to new database without valuable time spent by numerous developers.
  - **Application Refactor**: Refactored 3 existing microservices with new functionalities improving data retrieval and storage efficiency.

    Impact: Transitioned legacy microservices to adapt in upcoming product. Optimized original estimated time by providing re-usability.

- **The Travelers Companies** — Hartford, CT/Telecommute
  Software Engineer Intern — *June 2021 - Aug 2021*
  - **Role**: Test Engineer
  - **Automation End-to-End Testing**: Developed automated test cases for front-end applications using the Cypress framework.
    Impact: Provided a time efficient solution to conduct end-to-end testing on an upcoming product containing multiple layers. Automation allowed an estimated 15 minutes of total time saved for test developers.

EDUCATION

- **University of Connecticut - School of Engineering** — Storrs, CT
  Bachelor of Science - Computer Science — *Aug 2018 - May 2022*

  Courses: *Principles of Software Engineering, Data Structures and Object-Oriented Programming, Algorithms and Complexity, Principles of Databases, Big Data Analysis, Operating Systems, Computer Architecture, Introduction to Cryptography, Computer Networks and Security, Discrete Mathematics, Applied Linear Algebra.*

  Achievements: *Member of Upsilon Pi Epsilon, an International Honor Society for the Computing and Information Disciplines.*

PROJECTS

- **MyIntake - A food Intake Tracking Application**: (Work in progress) An interactive food intake tracker that intelligently advises users on eating habits throughout the day through notifications.   Technology Used - Java, Android Studio

VOLUNTEER EXPERIENCE

- **Mozilla**
  Open-Source Contributor
  - Code and documentation contribution to Mozilla's products such as Firefox, SeaMonkey, Thunderbird, GeckoView, and internal tookits.

- **University of Connecticut** — Storrs, CT
  Undergraduate Teaching Assistant — *Jan 2022 - May 2022*
  - Dedicated 9 hours of office hours weekly which focused on navigating students through rigorous coursework.
  - Lab instructor for 20+ students once a week for 2 hours.
  - Mentored numerous students on future progression in their education and professional careers.

SKILLS SUMMARY

- **Languages:**   JavaScript, TypeScript, HTML, CSS, Python, Java, C, C++, Swift, GraqhQL
- **Frameworks:**   React, Angular, Express, Spring, Flutter, Cypress, Mocha
- **Data:**   MongoDB, MySQL, JSON, XML
- **Tools:**   Git, Rally, Jira, Postman, Elasticsearch, Kibana, Maven, Gradle, Docker, VSCode, Android Studio, IntelliJ, MongoDB Compass, MySQL Workbench
- **OS:**   Microsoft Windows, MacOS, Ubuntu Linux