

# Jacob Chan

Github: [github.com/jcbchndev](https://github.com/jcbchndev)  
Portfolio: [jcbchndev.netlify.app](https://jcbchndev.netlify.app)

Email: [jcbchndev@proton.me](mailto:jcbchndev@proton.me)  
Cellphone: +1 860-710-5626

## PROFESSIONAL EXPERIENCE

- **Optum/UnitedHealth Group** Telecommute  
May 2022 - Present
  - *TDP Program Associate*
  - **Role:** Fullstack Agile 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  
Aug 2021 - May 2022
  - *Associate Software Engineer (Part-time)*
  - **Role:** Agile 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  
June 2021 - Aug 2021
  - *Software Engineer Intern*
  - **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  
Aug 2018 - May 2022
  - *Bachelor of Science - Computer Science*
  - 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 toolkits.
- **University of Connecticut** Storrs, CT  
Jan 2022 - May 2022
  - *Undergraduate Teaching Assistant*
  - 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, GraphQL
- **Frameworks:** React, Angular, Express, Spring, Flutter, Cypress, Mocha, Cucumber
- **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, iOS, Android