

# Justin Chan

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Recent college graduate seeking for Software Developer and Software Engineer opportunities.

## Education

### Bachelor of Art, Computer Science

08/2019 – 05/2023

University of Colorado Boulder

GPA: 3.67

**Awards:** 2 semesters Dean's List

**Relevant Coursework:** Data Structure, Algorithms, Software Development, Big Data Structure, Database System, Artificial Intelligence (AI), Machine Learning, Human Computer Interaction, Coding & Cryptography.

## Skills

**Language/Framework:** Python, C/C++, MySQL/SQL, HTML, CSS, FastAPI, NoSQL (MongoDB)

**Tools:** GCP, Docker, Git (Version Control), NumPy, Pandas, Matplotlib, TensorFlow, Azure DevOps, Shortcut

## Work Experience

### Software Intern, Medtronic Inc, Mounds View, MN

06/2022 – 08/2022

- Developed, designed, and maintained 60+ hazard templates based on analysis of FDA requirements to reduce manual entries.
- Migrated data from 20+ spreadsheets to Enterprise Architect to optimize stability, consistency and viewability.
- Programed **VBA** scripts to automate data processing functions and generated forms and graphs to eliminate manual input processes.
- Participated in weekly sprints and followed **Agile methodologies** to ensure efficient project management and delivery.
- Attended to code reviews actively to ensure code quality and adherence to best practices.
- Presented projects completed during employment to ~120 audiences of interns and stakeholders.
- Supported the reliability teams to implement **VBA** scripts to reduce manual entries.

## Projects

### Powder Pal

01/2023 - Present

Web Application written in ReactJS, Python, FastAPI and MongoDB

- Built a full stack web application using microservice ideology that make snowfields recommendations based on analyzing user's skill and snowfields' data.
- Designed and implemented **REST API** with **Python** and **FastAPI** framework in a containerized environment by following **Agile development methodology** to enable data retrieval and processing.
- Designed and developed a **MongoDB** database to ensure collection and storage.
- Integrated Google Maps API to the application using **Python** to enable drive time prediction.
- Deployed the application to cloud using **Docker** and **Google Cloud Platform (GCP)** to ensure efficient data management and accessibility.
- Maintained and updated existing documentation using **Notion** and **Swagger UI** to reflect software updates and API specifications to ensure smooth knowledge transfer.
- Collaborated with the team to optimize application architecture for cloud deployment to enhance scalability and reliability.
- Monitored and maintained the cloud infrastructure to ensure optimal performance and security.

### Dream Detective

08/2021 – 12/2021

Voice-controlled game

- Led a team of 4 students to realize and developed the core functionality using **Dialog Flow** in **Agile development style**.
- Provided 5+ datasets to train the natural language processing model to allow seamless communication between the application and clients.
- Consulted students from Criminal Justice departments to create the game narrative document.