Ryan Chan

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EDUCATION

California Institute of Technology   June 2020 – **Expected** June 2024
Bachelor of Science in Computer Science   GPA: 3.90
Coursework: Algorithms, Relations and Databases, Computing Systems, Web Development, Software Design, Decidability and Tractability, Functional Programming, Discrete Mathematics

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TECHNICAL SKILLS

Programming Languages: Python, Java, C, C#, MySQL 8.0, ECMA6 JavaScript, TypeScript, HTML5, CSS, OCaml
Technologies: Flask, React, Node.js, GraphQL, Azure DevOps, Git, .NET, Linux, BigQuery, Firebase

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EXPERIENCE

LoopNet CoStar | Software Development Intern   Jun 2022 – **Present**
- Implemented and tested the LoopNet European transaction back-end with the ecom dev team in **C#** and **SQL Server**
- Created **API** endpoints called with **GraphQL** to make purchases, update data, and manage anonymous checkouts
- Improved the LoopNet website in **React** and **TypeScript** to localize for regional dialects, pricing, and business rules
- UK development and deployment saw June ecommerce profits rise **47%** and saw a year over year jump of **131%**
- Worked in an **Agile** environment including daily stand-ups, three-week sprints, and one-on-one meetings

CoStar Group | Data Analyst Intern   Dec 2021 – Jun 2022
- Deployed a dashboard tracking over **19 billion** listings using **BigQuery** and **DataStudios** to isolate business trends
- Discovered key disparities in Costar's retargeting algorithms leading to improvements in coverage and reach of ads
- Developed a **Google Perspective** program to parse **1.7 million** client messages for inappropriate messages or content

NASA JPL | Software Development and Research Intern   Jun 2021 – Aug 2021
- Co-authored on an investigation of temporal and longitudinal influences on Jupiter's atmosphere
- Presented findings to the **Asia Oceana Geosciences Society** and **JPL Summer Undergraduate Research Fellowship**

PROJECTS

Reach Out | Mobile Social Media App (Spring 2022)   Devpost, GitHub
- Won **Best Overall Hack** at **Hacktech 2022** (Caltech's annual hackathon) for its uniqueness and technical prowess
- Provided chatting, real-time friend "status" feed, and user authentication using **React Native** and **Firebase**

Tennis History Tool | Database Project (Winter 2021)   GitHub
- Built a **MySQL** database with password access and encryption, routine/trigger updating, and appropriate functional dependencies to store tennis tournament and ranking histories from 2000 – 2021
- Managed permissions to allow users to login, update, and query the database in their terminal using a **Python** integration

Fantasy Basketball Drafting Tool | Web Application (Summer 2021)   GitHub
- Developed a predictive model for player outputs while gaining experience in **NumPy**, **Pandas**, and **Beautiful Soup**
- Over **2000** people used the **Python/Flask** web application in their drafts for the 2021-2022 season

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LEADERSHIP

Teaching Assistant | Caltech CS 1: Computer Programming   August 2022 – **Present**
- Teaching programming fundamentals to develop an understanding of **object-oriented programming** in Python and Java
- Designing a project-based curriculum to teach pair programming, communication, and collaboration
- Building good **code practices** by introducing documentation, testing, and code quality guidelines

Caltech Data Science Organization   September 2020 – **Present**
- Creating networks for Caltech students in the data science industry through workshops, competitions, and more