Justin Chen

Cupertino, CA | La Jolla, CA

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Education

University of California, San Diego   La Jolla, CA

B.S. in Computer Science, GPA: 3.91   *September 2017 - June 2021*

Notable Coursework
CSE 100: Advanced Data Structures, CSE 101: Design and Analysis of Algorithms, CSE 110: Software Engineering
CSE 132A: Database System Principles, CSE 120: Operating Systems, CSE 127: Computer Security
Math 18: Linear Algebra, Math 20C: Multivariable Calculus, Math 183: Statistical Methods, COGS 108: Data Science in Practice

Skills

- **Languages**: Java, Python, Javascript, HTML/CSS, C, C++, MATLAB

- **Tools/Frameworks**: ARM, React, MySQL, Splunk, Android

Work Experience

Microsoft   Remote

Software Engineering Intern   *June 2020 - present*

- Created a handler in C# that enables semantic highlighting support for the PowerShell Extension in VS Code
- Developed a PowerShell module to enable Codespaces in remote environments for Windows, MacOS, and Linux to allow for remote debugging on VS Code Online
- Worked on enhancements and bug fixes for the PowerShell kernel in Jupyter Lab

UC San Diego ProtoLab   La Jolla, CA

Software Developer   *November 2019 - present*

- Helped develop ProtoTeams, a web app that aids team formation via small group interactions
- Used the Meteor platform (React + Node + MongoDB integration) to develop a robust and intuitive app for users
- Deployed in various classroom settings to test for flexibility and scalability

American Express   New York City, NY

Software Engineering Intern   *June 2019 - August 2019*

- Used Python to analyze and visualize traffic data from millions of mobile users across 10+ regions from Splunk logs to determine the effect of a force upgrade
- Integrated Dynatrace into the Android app (in Kotlin) to provide real user monitoring and report the availability/reliability of the system
- Developed a scoring matrix to categorize user traffic data and flag attack traffic from certain IPs that should be blocked

UC San Diego CSE Department   La Jolla, CA

Course Tutor   *September 2018 - March 2020*

- Helped run CSE 11, the introduction computer science course, and CSE 30, Computer Organization and Systems Programming
- Provided 1 on 1 help for students during weekly lab hours
- Graded exams, quizzes, and programming assignments

Lacework   Mountain View, CA

Software Engineering Intern   *June 2018 - September 2018*

- Worked on a REST API using Dropwizard (Java) for interfacing with contract information stored in different cloud databases (Snowflake, Amazon Aurora)
- Built an intuitive UI with React to allow customers to view their recent contract and usage history
- Used the Jira/Datadog APIs to create alert notifications for customers when certain events are triggered
- Created an interface for converting JSON objects to parameterized MySQL statements

Boston University   Boston, MA

Research   *July 2016 - August 2016*

- Researched a novel circuit design to more efficiently convert AC to DC
- Used MATLAB/Simulink to simulate circuit configurations to test the accuracy of theoretical calculations and built circuits powered by Arduino to test the simulations
- Created/presented poster during a symposium to students and faculty
- Research paper has been published in the New Journal of Physics