

Jeremy Tan

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EDUCATION

Duke University

Master of Science, Data Science (MIDS)

Durham, NC

August 2023 – Expected May 2025

University of California, Santa Cruz

Bachelor of Science in Computer Science

Santa Cruz, CA

September 2017 – June 2021

SKILLS

Programming Languages: Python, JavaScript, R, SQL, Java, C, C++, MATLAB

Tools: Google Cloud, AWS, Docker, Git, ServiceNow

EXPERIENCE & LEADERSHIP

Research Assistant

October 2019 – Present

Computer Vision Lab: University of California, Santa Cruz

Santa Cruz, CA

- Improved SIM, a web app for creating 3D floorplans with the MapBox API and making tactile maps for the blind, by developing 5 new toolkit features
- Upgraded tactile map generation by moving from default canvas Javascript implementation to custom SVG canvas
- Implemented four new Express routes for room segmentation and optimized Create, Read, Update, and Delete operations via MongoDB
- Mentored 2 undergraduate students by teaching them how to use Node.js, Express, and MongoDB

Research Assistant

September 2019 – Present

Tech4Good Lab: University of California, Santa Cruz

Santa Cruz, CA

- Integrated 4 lab projects (Causeway, Timely, OME, Kuribot) to Slack using Python and deployed with Google Cloud
- Led the development of 2 Python-based Wizard of Oz Slackbots to simulate conversational UX to foster social interactions among students and open discussion of mental health across 4 academic quarters
- Increased engagement of students by 50% through automated prompts for students to discuss and built a Python data collection pipeline to record responses from students
- Trained a SVM machine learning model on scraped Stackoverflow questions to predict appropriate web development guide on Causeway based on question asked in Slack

Software Engineer

June 2021 – July 2023

Tata Consultancy Services

Santa Clara, CA

- Designed a Python data analytics pipeline to transfer autonomous vehicle metrics into CARLA, a scenario runner
- Mapped client's autonomous vehicle metrics to the proper format to recreate scenarios in CARLA
- Ran 100+ scenarios with client while also extracting traffic pattern, traffic light, and obstacle insights

ITS Business Analyst

March 2018 – June 2021

University of California, Santa Cruz

Santa Cruz, CA

- Authored and documented 10+ catalog items within the ServiceNow platform for university faculty and employees
- Hosted 5+ training sessions for university students, faculty, and employees to utilize ServiceNow modules
- Integrated 15+ university departments and services into ServiceNow in the form of workflows, tables, and reports using JavaScript

PROJECTS

Question and Answering Chatbot

January 2019 – March 2019

- Trained a question and answer system Python bot with Stanford NLP API to analyze questions asked and to identify an appropriate answer from a dataset of stories
- Competed against 13 other teams, winning as a team of two with the highest F-measure score of 63.3% against a held-out dataset