

## SUMMARY

As a student at UC San Diego majoring in Computer Science and minoring in Urban Studies and Planning, I am passionate about leveraging data to drive smarter decisions in business and urban systems. With experience in building data pipelines, automating reports, and applying geospatial and statistical analysis to real-world planning and operations, I am eager to expand my expertise and help build the next generation of data-driven systems.

## TECHNICAL SKILLS

Programming Languages: Python, SQL, C/C++, Java, JavaScript, PHP, HTML/CSS, Verilog, MATLAB

Tools and Frameworks: ArcGIS, AWS Lambda, Node.js, Express, React, Bootstrap, Git, Jest, Jira, Figma, ServiceNow

Core Competencies: Agile/Scrum, DevOps, Data Analysis, System Integration, User-Centered Design, Geospatial Analysis

## EDUCATION

### University of California San Diego

September 2022 - June 2026

Bachelor's of Science, Computer Science

Minor: Urban Studies and Planning

Relevant Coursework: *Data Science in Practice, Intro to Business Analytics, Data Structures, GIS for Urban and Community Planning, Computer Organization and Architecture, Systems Programming, Software Engineering, UI/UX Design, Design and Analysis of Algorithms, Discrete Math, Calculus and Linear Algebra, Digital Systems, Networked Systems, AI Reasoning*

### Haileybury & Imperial Service College

September 2020 - June 2022

International Baccalaureate (IB) Programme

Higher level focus: *Computer Science, Economics, Design & Technology*

## RELEVANT EXPERIENCE

### Student GIS and Business Analyst

Operations Management and Capital Programs, UC San Diego

June 2025 - Present

- Built and maintained authoritative GIS datasets for Clery Act geography and emergency assembly areas to support regulatory compliance and campus safety planning across 900 university buildings
- Improved parking inventory and sensor data accuracy by validating data against on-site observations and floor plans, correcting coordinate misalignment, incorrect floor attribution, and duplicated sensor records
- Connected facilities data from IBM TRIRIGA with GIS layers to support planning work around campus assets, space usage, and capital projects
- Built ArcGIS Enterprise maps and StoryMaps, including a public-facing Stuart Collection guide, to communicate spatial information through clear, user-friendly interfaces for both internal teams and campus visitors

### Student Application Development and Integrations Engineer

IT Services, UC San Diego

July 2025 - Present

- Deployed a serverless data pipeline (using AWS Lambda, S3, and RDS Postgres) ingesting high-frequency parking data from multiple vendor APIs, creating a centralized operations data lake
- Designed and implemented relational schemas supporting historical and real-time analysis of occupancy by location, floor, and parking eligibility category
- Built automated XML and JSON data feeds powering UC San Diego's digital signage and mobile app, delivering live parking availability information to 33,000+ daily drivers
- Improved reliability of live parking availability data by identifying erroneous vendor assumptions and correcting data inconsistencies in production feeds

### Student Business Systems Analyst

Transportation Services, UC San Diego

July 2024 - June 2025

- Built and optimized complex SQL queries and Python scripts to support operational reporting, reducing manual processes and enabling data-driven decisions

- Automated transit benefit eligibility checks, saving over \$50,000 annually by identifying ~6% ineligible users and eliminating overpayments
- Maintained secure, automated file transfers between platforms, reducing erroneous parking citations by over 1,000 per month
- Led the implementation of a digital tire chalking system using LPR, reducing enforcement time by 80% and eliminating manual steps

## **Service Desk Technician**

IT Services, UC San Diego

August 2024 - November 2024

- Delivered first-line technical support for network, account, hardware, and software issues to faculty, staff, and students across UC San Diego and UC San Diego Health
- Demonstrated proficiency with advanced tools including Cisco Identity Services Engine (ISE), DNA Center (DNAC), and Duo Security, Hostmaint, and UCSD IT Tools for efficient account management and network troubleshooting

## **Student Assistant**

Transportation Services, UC San Diego

April 2023 - July 2024

- Assisted community members with logistics, payments, mobile app troubleshooting, and EV program inquiries
- Streamlined workflows by designing public-facing forms and improving internal documentation
- Gained experience in customer support and service operations in a high-volume environment

## **Team Lead**

Commit Developer Journal Web App

April 2024 - June 2024

- Led a 13-member Agile team to build "Commit," a full-featured CRUD web app for tracking developer progress, tasks, and goals
- Managed the full software development lifecycle: requirements gathering, UI/UX prototyping, implementation, testing, and delivery
- Introduced markdown-based journaling, calendar scheduling, and task linking to enhance user workflow
- Oversaw GitHub-based version control, code reviews, and sprint retrospectives to ensure quality and delivery

## **Web Developer Intern**

The FedR8tion

July 2022 - August 2022

- Rebuilt the company website using Laravel PHP and Tailwind CSS to align with the company's rebranding efforts
- Produced templates and implemented automated email workflows
- Collaborated with the team to meet project goals following Agile framework
- Gained practical experience in frontend development, project management, and team communication

## **Co-founder**

Haileybury Computer Science Society

September 2021 - March 2022

- Co-founded the school's Computer Science Society, organizing scheduling and marketing of events
- Led weekly meetings to engage students of all years in programming, robotics, and problem-solving activities
- Shared insights and fostered interest in computer science among students
- Improved problem-solving skills through instructing others

## **Solo Web Developer**

Haileybury Homework Portal

May 2021 - March 2022

- Designed and developed a full-stack homework management portal to digitize the school's physical planners and streamline assignment communication between students and teachers
- Created low-fidelity and high-fidelity mockups using Figma to prototype user flows and interface layouts before implementation
- Implemented user roles, assignment tracking, and messaging features using HTML/CSS, JavaScript, and PHP
- Conducted stakeholder interviews with faculty and students to refine functionality and align branding with school standards