

# BRIAN HUANG

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## TECHNICAL SKILLS

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- Languages: C++ (Most Proficient), Python, JavaScript, HTML, CSS, C
- Tools & Technologies: Qt Framework, Django, Git, Microsoft Word, macOS, Windows, Linux

## EXPERIENCE & PROJECTS

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### Project | Weather Forecast App

Project

C++

- Engineered a cross-platform desktop weather application in C++ and Qt, processing over 10,000 real-time data points daily from the OpenWeatherMap API, improving data retrieval efficiency by 30%.
- Designed a user-friendly interface that provides current conditions, forecasts, humidity, and temperature data, enhancing user engagement through interactive visualizations.
- Implemented robust error handling and asynchronous API calls, reducing application downtime by 40% and increasing performance efficiency by 25%.

### Project | Personal Portfolio Website

Project

HTML & CSS | JavaScript

- Designed and developed a professional portfolio website using HTML, CSS, and JavaScript.
- Curated content showcasing projects and skills, resulting in a 20% increase in professional network connections.
- Implemented responsive design principles and optimized website performance for a seamless user experience.

### Project | Supermarket Billing App

Project

C++

- Created a robust supermarket billing application using C++ to streamline retail operations.
- Integrated a full-suite product management system that decreased inventory discrepancies by 50%.
- Leveraged file handling capabilities to maintain accurate product information and transaction history.

### Project | Face Detector

Project

C++

- Developed an OpenCV and C++ face detection system processing live video at 30 FPS, accurately identifying faces with 98% precision.
- Leveraged deep learning with a pre-trained SSD model to enhance detection tasks, achieving a 20% improvement in detection accuracy over baseline models.

### Intern | Mayor's Youth Employment Education Program

June 2018 - May 2019

*Professionalism learning and work experience*

- Developed strong professional standards, essential for maintaining code quality and collaborative work.
- Conducted detailed research and analysis tasks, reinforcing a data-driven approach to problem-solving and decision-making in projects.

## EDUCATION

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University of California, Santa Cruz - Bachelors of Science, Computer Science, GPA 3.91, Dean's Honors List 2021-2023

University of California, Davis - Transferred from UCSC | Bachelors of Science, Computer Science | Regents 2023-2025

## NOTABLE COURSES

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Data Structures and Algorithms, Object Oriented Programming, Discrete Math, Computer Systems