

Brett Bass

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EDUCATION

University of California San Diego

Bachelor of Science in Computer Engineering

La Jolla, CA

Sep. 2020 – June 2023

Pierce College

Associate's in Physics & Mathematics

Woodland Hills, CA

Aug. 2017 – May 2020

EXPERIENCE

Data Engineer Intern

May 2022 – Sep. 2022

BAE Systems

Rockville, MD

- Designed and implemented a robust Search module capable of extracting and converting binary data for infield testing purposes onboard military submarines
- Designed and implemented SQL queries to construct comprehensive testing tables, ensuring accurate data representation and integrity
- Developed Python automation tools that accelerate redundant processes while analyzing data

Information Technology Support Specialist

Jan. 2022 – June 2023

University of California San Diego

La Jolla, CA

- Communicate with faculty and staff to coordinate the deployment of computer equipment
- Assess and troubleshoot computer problems brought by students, faculty, and staff
- Maintained the upkeep of computers, servers, classroom equipment, and website changes

Introduction to C++ Assistant Teacher

Sep. 2022 – Dec. 2022

University of California San Diego

La Jolla, CA

- Assisted in the creation of homework assignments and programming projects with a focus on critical thinking and applying newly taught programming techniques
- Conducted code reviews and debugging sessions, offering constructive feedback to help students identify and resolve programming errors
- Oversaw the process of student submission and assignment grading, leveraging automated testing to ensure accuracy and consistency
- Provided individualized guidance and feedback to students during office hours

PROJECTS

Quadcopter | C++, Arduino, Fusion 360, PCB Design, Git

March 2023 – June 2023

- Programmed the radio communication system between the remote and quadcopter, enabling seamless and reliable data exchange
- Implemented advanced sensing and filtering mechanisms to enhance data accuracy and reliability, ensuring optimal performance of the quadcopter
- Developed and integrated the PID controller, enabling precise control and stabilization of the quadcopter during flight operations

Portfolio Website | React, Typescript, Stackblitz, Docker, Git

June 2023 – Current

- Created a captivating portfolio website from scratch using React.tsx
- Leveraged the StackBlitz platform as a powerful development environment for building the portfolio website from scratch, allowing for seamless collaboration, real-time coding, and instant project deployment.
- Utilized Tailwind CSS to streamline and expedite the styling and layout process, enabling efficient development and consistent design implementation across the portfolio website.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, SQL (Postgres), TypeScript, HTML/CSS, SystemVerilog

Frameworks: React, Node.js, .Net Core, JUnit, WordPress, Django

Developer Tools: Git, Docker, Kubernetes, Google Cloud Platform, Amazon Web Services, Digital Ocean, VS Code, Visual Studio, PyCharm, Resharper, Eclipse