

PATTON TANG

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PROFESSIONAL EXPERIENCE

Brooks Automation

Fremont, CA

Software Engineer Intern

May 2022 - August 2022

- Collaborated on developing an automated event-driven simulator for existing industrial hardware, resulting in reduced development time spent with SQA processes.
- Maintained source control with Git and designed test cases from client-reported bugs.
- Expanded client-developer simulator tool functionality to improve user interface readability and general ease of use with C# and .Net framework.

PROJECTS

Canvas | Flask

- Developed and deployed a web application with Flask which allows users to simultaneously collaborate on a canvas with real-time connectivity.
- Features cross-platform compatibility with mobile and desktop devices.
- Interface designed with modern responsive UI to maximize user experience.
- Websockets connect users with a persistent connection for near-instant delivery times.

Portfolio | JavaScript, CSS, HTML

- Built a single-page website to display projects with HTML, CSS, and JavaScript.
- Asynchronous fetch-promise requests allow for the site to dynamically obtain JSON data for faster initial website connection times.

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, SQL, C#, Javascript, HTML, CSS, Assembly
- **Frameworks:** Flask, .NET, React
- **Developer Tools:** Git, Google Cloud Platform, Adobe & Microsoft Suites, CLI, Powershell, bash, Virtual Box, Ghidra, PE-bear, Strings (Unix), Process Explorer & Process Monitor, REMnux, Wireshark, Netcat, ApateDNS, Unity, Unreal Engine 5
- **Libraries:** pandas, Scikit-Learn, pygame

EDUCATION

California State University, Fullerton

Fullerton, CA

Bachelor of Science, Computer Science

Graduation: May 2025

- **Relevant Coursework:** Web Front-End Engineering, Web Back-End Engineering, Algorithm Engineering, Data Structures, Operating Systems Concepts, File Structures and Database Systems, Compilers and Languages, Computer Communications (Network Protocols), Malware Analysis, Discrete Mathematical Structures I & II, Game Design and Production, Data Science and Big Data, Cybersecurity Fundamentals and Principles