

# PATTON TANG

[pattontanges@gmail.com](mailto:pattontanges@gmail.com) | [linkedin.com/in/patton-tang](https://www.linkedin.com/in/patton-tang) | [ptanges.github.io/Portfolio/](https://ptanges.github.io/Portfolio/)

## EDUCATION

**California State University, Fullerton**

Fullerton, CA

*Bachelor of Science, Computer Science*

Aug 2022 - May 2025

*GPA: 3.5/4.0; cum laude*

- 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

## PROFESSIONAL EXPERIENCE

Brooks Automation

Fremont, CA

*Software Engineer Intern*

May 2022 - August 2022

- Co-developed an automated event-driven simulator for existing industrial hardware, reducing development time spent with SQA processes under scrum.
- Maintained source control with Git and designed high level test cases from client-reported bugs.
- Expanded internal simulator tool functionality to improve user experience (UX) and general ease of use with C# and .NET framework.

## PROJECTS

*TypeFighter | React, Flask, Vercel, PostgreSQL*

- Developed a responsive single-page website using React
- Built and maintained API endpoints using Flask for backend services
- Deployed frontend and backend applications to Vercel for scalable hosting
- Integrated PostgreSQL database hosted on Neon with Vercel backend API endpoints

*Bookclub | Amazon Web Services (API Gateway, Lambda, CloudWatch), Flask, JavaScript*

- Integrated serverless and scalable AWS Lambda backend services with API Gateway
- Managed user authentication and maintained best security practices with AWS Cognito
- Enabled seamless frontend user experience with Flask and JavaScript

## 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