

# Tommy Chow

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## EDUCATION

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### University at Buffalo - School of Engineering and Applied Sciences

Buffalo, NY

*Bachelor of Science in Computer Science*

*Jan. 2019 – May 2022*

- Cumulative GPA: 3.8/4.0
- Dean's List: Fall 2019, Fall 2020, and Spring 2021.
- Relevant Coursework: Systems Programming, Data Structures, Computer Security and Organization, Modern Algorithms and Complexity, Web Applications, Modern Networking Concepts, Software Engineering, Systems Administration, Human Computer Interaction and Interface Design, and Computer Vision and Image Processing.

## EXPERIENCE

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### KAFSC

New York City, NY

*Information and Data Intern*

*Jul. 2019 – Aug. 2019*

- Cooperated with 2 other interns and IT staff to perform data migration of client information from DonorPerfect to Salesforce using Excel functions, cutting the total migration time by 2 weeks.
- Actively contributed to major projects involving maintenance of the computer labs and servers, production of a plan to revamp the network of the office, and creating weekly reports to keep track of system security.
- Collaborated daily with directors, managers, and community outreach coordinators to design and edit various logos, visualizations, and marketing materials for use in over 100 official documents and promotional items.

## PROJECTS

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### Frosty - Cross-Platform Live Stream Client 📄 | Dart, Flutter, Swift, SwiftUI

*Mar. 2022*

- Designed and developed a free and open-source app for iOS and Android that enables users to explore channels and categories on Twitch.tv, watch relevant video streams, and interact with 1000s of viewers in a live chat room.
- Utilized 4 APIs to implement live stream playback, sending and receiving IRC chat messages, rendering of static and GIF emotes, and secure user authentication via OAuth implicit code flow.
- Achieved high performance and optimal battery usage through granular state rebuilds and lazy loading.
- Deployed on the Apple App Store and Google Play Store with 1500+ total downloads.

### Zeal - Event Finding Web App 📄 | Django, Docker, Heroku, JavaScript, Python, React

*Dec. 2021*

- Led a team of 5 to design, develop, test, and deploy a web app that allows users to create, explore, and join events.
- Engaged in common Agile software development practices including scrum boards, sprints, stand-up meetings with project manager, tasking, test-driven development, and user stories; completed project 2 weeks ahead of schedule.
- Responsibilities included front-end development with React, deployment via Heroku and Docker Compose, pull request reviews on GitHub, organization of tasks and issues on ZenHub, building a REST API with Django, wire-framing on Figma, and a final marketing presentation.

### The Gallery - Image Sharing Web App 📄 | HTML/CSS, JavaScript, Python, socketserver.py

*May. 2021*

- Developed a web app that lets users sign up for an account to browse and upload images, comment, and chat.
- Backend functionality such as building and parsing HTTP requests and responses, WebSocket frames, multipart/form-data, and server-side rendering were all built from the ground up with no frameworks.
- Manually implemented common security features including escaping inputs, token-based submissions and authentication, and password validation.

### Stock Chart Visualizer 📄 | Bottle.py, HTML/CSS, JavaScript, Plotly, Python, Replit

*May 2019*

- Created a simple finance website through Replit for users to input any stock ticker and retrieve the corresponding candlestick and volume charts, with historical data ranging from 1 day to 5 years.
- Performed AJAX/GET requests with the IEX Cloud API to retrieve, parse, and organize 6 stock data points.
- Incorporated the Bottle.py micro web-framework to handle routing, enabling the implementation of a query string feature where modification of the URL can easily obtain a desired stock and timeline.

## TECHNICAL SKILLS

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**Databases:** MySQL, MongoDB, PostgreSQL, SQLite

**Developer Tools:** CI/CD, Docker, Git, GitHub Actions, Figma, Heroku, Vercel, VS Code, Xcode

**Frameworks and Libraries:** Django, Flask, Flutter, Next.js, React, React Native, SwiftUI, Tailwind CSS

**Languages:** C/C++, Dart, HTML/CSS, JavaScript, Python, Scala, Swift, SQL, TypeScript