SAMUEL YUAN

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EDUCATION

The University of Texas at Austin	Bachelor of Science, Computer Science Honors	December 2024
	Bachelor of Business Administration, Canfield Business Honors	
	Overall GPA: 3.85/4.0	

EXPERIENCE

Striveworks – *Software Engineering Intern;* Austin, TX   May 2022 – August 2022
• Constructed Golang microservice to analyze and report product dependencies, deployed on Kubernetes cluster with Helm
• Designed Kubernetes-in-Docker cluster to deploy local instance of microservice for testing, mocked out various features
• Wrote Python unit tests interfacing with Amazon S3 and various platform SDK functions using Pytest and Pandas libraries
• Created CI/CD pipeline jobs to pull in-development Docker images from private registry and test before deployment

Otto – *Founding Engineer;* Remote   July 2020 – January 2022
Pet management startup integrating software with QR code pet tag to centralize pet data and improve pet safety
• Developed cross-platform mobile app with 600+ downloads and average rating of 4.4 stars using Flutter and GraphQL
• Architected efficient NoSQL structure for storing and retrieving user and pet data on Firebase cloud database
• Generated $100+ in yearly recurring revenue by implementing paid in-app subscription system with premium features

Major League Hacking Fellowship – *Explorer Fellow*; Remote   February 2021 - April 2021
• Engineered four different open-source projects over 12 weeks with new technologies such as Svelte and Unity
• Delivered hour-long instructional workshop on GraphQL to about 10 team members
• Built Express.js API hosted on Microsoft Azure connect React.js frontend website with Hyperledger Fabric backend

PROJECTS

CapsuleMap – *Role: Lead Mobile Developer*   April 2021
• Programmed cross-platform social media app focused on physical and mental health with Flutter, Provider, MobX, Firebase
• Integrated Google Maps SDK and Geolocation API to display current user location and database entries created nearby
• Awarded $11,000 in claimable funding by the 1517 Fund to further develop application

VS Code GitHub Projects – *Role: Full Stack Developer*   February 2021
• Deployed open-source VS Code extension providing interface for GitHub Projects with 13,000+ total downloads
• Established persistent GraphQL communication by polling between multiple WebViews rendered by Svelte and GitHub API

LEADERSHIP EXPERIENCE AND ACTIVITIES

University Computational Finance – *Member*   Spring 2022 - Present
• Craft market watches with insight into daily news and carefully researched stock pitches and analyses
• Developed trading simulation with React, Socket.io, and Node.js to simulate creating a market around a given value

Honors Business Association – *Vice President of External Affairs (Spring 2022)*   Fall 2021 - Present
• Organized food drive with honors program office collecting 25+ canned goods donated to the Central Texas Food Bank

Innovation and Development Association (IDEA) – *Co-Founder, Co-President*   Fall 2019 - Spring 2021
• Directed programming for weekly member meetings on coding fundamentals and app development to novice students
• Coordinated 10+ members to compete in over five development competitions

HACK Initiative – *Co-Founder, Volunteer*   Spring 2019 - Spring 2021
• Launched volunteer program at two nearby junior high schools to teach coding to younger students
• Guided 50+ students in learning programming languages such as Java and JavaScript using interactive libraries such as p5.js

HONORS

• First Place at UT Computer Science Honors CritterFest Competition   October 2021
• Second Place Project and Most Novel Hack at Citrus Hack Hackathon   April 2021
• Best UI/UX Hack at HackTheNortheast: Beyond Hackathon   January 2021

ADDITIONAL INFORMATION

Programming Languages: Go, Python, Java, JavaScript, TypeScript, Dart, C
Frameworks and Platforms: React.js, Flutter, Docker, Kubernetes, Firebase, Git, Figma, NoSQL, Node.js, Pytest, CI/CD