

Tai Sanh Nguyen

Full Stack Software Engineer

Portfolio: taisnguyen.github.io
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EDUCATION

Princeton University	<i>Bachelor of Science in Engineering in Computer Science</i>	2022 — Present
Activities:	Development Chair & Software Project Manager at ResInDe, ACM, The Prince Tech Team	GPA: 3.4/4.0
Coconut Creek HS	<i>Secondary Education</i> Valedictorian QuestBridge Match Recipient	2018 — 2022

EXPERIENCE

Software Engineer Intern	2023 — Present
<i>Fusion Systems Group</i> Tokyo, Japan	
<ul style="list-style-type: none">Drastically improved UI/UX across F&B SaaS system, serving over 1028 stores, according to client specifications given every bi-weekly Agile sprint (React, Redux).Responsible for key feature implementations for soon-to-be-deployed product, adhering to iterative, data-driven methodology (client-testing and user data).Refactored and extended RESTful API (microservice architecture) to accommodate for said key features as well as preexisting feature extension, while maintaining SOLID principles (Django, Flask, PostgreSQL, AWS).	
Software Engineer	2023 — Present
<i>Pupil (getpupil.com)</i> New York, NY	
<ul style="list-style-type: none">iOS/Android development on minimal viable product (MVP) to be launched for pilot phase, with expected traffic of over 3000 users (React Native, Redux, Firebase).Responsible for redesigning, implementing, and managing investors landing page, improving overall accessibility, aesthetic design, and UX (Svelte).Integrated third-party APIs such as Twitter API and OpenAI alongside proprietary business logic to create a unique user experience (TypeScript, Redux, Firebase).	
Software Engineer	2022 — Present
<i>The Daily Princetonian</i> Princeton, NJ	
<ul style="list-style-type: none">Refactored and deployed business site by 1) Improving the dynamic templating of data on the front-end, 2) Implementing RESTful upload endpoint for authorized end users to perform CRUD operations on site data, and 3) Through the upload endpoint, allowing the business team to handle site data without having to consult developers.Implementing Figma designs within React (along with Router, Redux, etc.) and interfacing to a Flask and Firebase backend for Princeton University students to conveniently register for campus events.	
Machine Learning Intern	Winter 2022
<i>QuantCap</i> Miami, FL	
<ul style="list-style-type: none">Analyzed, prepared, and modeled data with ML libraries in Python, including scikit-learn, pandas, NumPy, and seaborn. Yielding 70%+ accuracy on classification tasks, utilizing Kelly criterion to net profits on simulated environments.Designed and implemented backend microservice serving .csv files exposing CRUD endpoints, allowing the persistence and retrieval of aggregated data with Flask and pandas.	
Software Engineer Intern	Summer 2021
<i>Broward County</i> Pompano Beach, FL	
<ul style="list-style-type: none">Developed and managed front-end and back-end of modular-based management web application with ASP.NET Core, C#, MSSQL & T-SQL, and JS libraries, transitioning from paper-based documentation to a digital store, saving hundreds of work hours and drastically improving work experience.Modeled (UML) relational schema to implement and interface with MSSQL & RDBMS. Worked with .NET Entity Framework ORM.Found and resolved XSS vulnerability within HTML sanitization parsing in production.	
Programming Competitions	2021
<i>Business Professionals of America</i> Orlando, FL	
<ul style="list-style-type: none">1st Place Nationals (US) C++ Competition & 1st Place Nationals (US) Information Technology Concepts Competition.7th Place Nationals (US) Python Competition.1st Place States (FL) C++ Competition & 1st Place States (FL) Python Competition.	

PROJECTS

• Word Fall An online word game created with NodeJS, Express, and SocketIO, employing OO design.	2022 — Present
• Princeton University Web-Scraping Bot Built with Discord API and web-scraping with BF4.	2022
• Sketching App Sketching app using NodeJS, Electron, JS, HTML, and CSS, focused on OO design and unit testing.	2021

TECHNICAL SKILLS

Programming Languages	C#, Java, Python, JavaScript, TypeScript, HTML, CSS
Frameworks / Technologies	NodeJS, React, Django, Flask, SQLAlchemy, ASP.NET Core, AWS RDS & DynamoDB, SQL(s), Git