

James Huang

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Education

Georgia Institute of Technology • *Master of Science in Computer Science*

Incoming Fall 2025

Stony Brook University • *Bachelor of Arts in Biology & Minor in Health, Medicine, and Society*

May 2023

Experience

Software Engineer • Chickasaw Nation Industries, Inc.

Oct 2024 - Present

- Collaborate with client stakeholders to gather design and functionality requirements for a legacy software modernization to new C# and ASP.NET web-based application
- Build proof-of-concept AWS workflows to demonstrate potential improvements in scalability, security, and cost-efficiency
- Interpret and document legacy VBA code to clarify critical business logic for internal team usage

Software Engineer • Dev-Overflow

Aug 2023 - Oct 2024

- Wrote Python scripts with Playwright to scrape 20+ banking websites for newly published bank circulars, hash circulars for storage in DynamoDB and trigger email notifications for subscribers using Postmark, streamlining information delivery
- Automated scraping and notification processes using Python scripts and AWS Lambda handler functions, delivering client alerts within 12 hours of a new circular publication
- Refined individual scrapers and custom utilities, using Python's unittest to raise value and type exceptions at application layer for rapid identification of scraping failures, increasing backend test coverage by 63%
- Configured GitHub Actions workflows to automate testing and enforce code standards using Bash scripts, leading to a 93% reduction in manual intervention and simplifying the code review process
- Established and documented GitHub Actions workflow standards to foster high-quality CI practices, boosting team efficiency and shortening onboarding time for new developers
- Designed and styled account creation flows and responsive interfaces using TypeScript, React, and TailwindCSS for smooth UI interactions and consistent design across various devices and screen sizes
- Implemented unit and integration tests with React Testing Library, Jest, and Vitest to boost account creation-related test coverage by 25%, leading to end-to-end data validation and optimal UX functionality

Software Engineer • OSLabs

Jan 2023 - Aug 2023

- Built key prototyping features in Typescript, React and its libraries, including a file system, drag-and-drop elements, a collapsible tree visualizer, and a code preview window, significantly enhancing the product's functionality and user experience
- Constructed Express server for high-performance RESTful application architecture to facilitate real-time folder and file creation using Node.js file system module, decreasing system failures and raising overall application stability
- Launched with Node.js runtime in Electron to leverage Chrome's V8 Engine for seamless Next.js file, component, and page endpoint creation across Windows, macOS, and Linux environments
- Deployed and shipped product to Vercel and Amazon EC2 instances to optimize frontend performances using serverless infrastructure and maintain backend reliability, establishing high availability for critical services

Projects

Clearview • Developed a deep learning model using Convolutional Neural Networks and image recognition to achieve an average of 75% accuracy rate in detecting and classifying chest cancer types

Alley • Created a tennis court locator application enabling users to search, filter, favorite courts and add personalized notes

Speaking Events & Publications

Web Security Mechanisms • Bractlet Software Engineering Speaker Series

Supercharge Prototyping with NextSketch • Medium.com

Technical Skills

Languages TypeScript, JavaScript, Python, Java, HTML, CSS, Bash, C#, SQL

Libraries & Frameworks React, Next.js, Redux, Node.js, Express, MaterialUI, TailwindCSS, Jest, Playwright, Tensorflow, Keras

Tools PostgreSQL, MongoDB, Git, AWS, webpack, Vite, Docker, Babel, Vercel

Certifications AWS Solutions Architect Associate

Interests

Dragon Boat • Lion Dance • Marathon Running • Cooking Homemade Meals From Scratch • Teamfight Tactics • Tennis • Pickleball