

# James Huang

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## Technical Skills

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TypeScript • JavaScript • Python • React • Next.js • Redux • Node.js • Express • HTML • CSS • MaterialUI • TailwindCSS • Bash • PostgreSQL • MongoDB • Jest • Playwright • Tensorflow • Keras • Git • AWS • webpack • Vite • Docker • Babel • Vercel

## Experience

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### Software Engineer • Dev-Overflow

November 2023 - Present

- Write 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
- Automate scraping and notification processes using Python scripts and AWS Lambda handler functions, delivering client alerts within 12 hours of a new circular publication
- Refine 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%
- Configure 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
- Establish and document GitHub Actions workflow standards to foster high-quality CI practices, boosting team efficiency and shortening onboarding time for new developers
- Develop and style account creation flows and responsive interfaces using TypeScript, React, and TailwindCSS for smooth UI interactions and consistent design across various devices and screen sizes
- Implement 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 • NextSketch

May 2023 - November 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

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### Clearview - Chest Cancer Diagnosis Tool

- Developed a deep learning model in Python, leveraging Convolutional Neural Networks and image recognition, to achieve an average 75% accuracy rate in detecting and classifying chest cancer types
- Utilized geometric and photometric data augmentation techniques to enhance data quality and model performance, reducing overfitting and bias

### Alley - Tennis Court Locator

- Employed Redux Toolkit to design a compartmentalized store architecture for managing search filters, cached court data and user preferences, ensuring consistent data access across multiple containers
- Engineered React Router to enable URL-based routing for intuitive navigation of 15+ court locations, eliminating page reload transitions and minimizing server load by 23%

## Education & Certifications

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- Stony Brook University • *Bachelor of Arts in Biology & Minor in Health, Medicine, and Society*
- AWS Solutions Architect Associate

## Speaking Events & Publications

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- Web Security Mechanisms • Bractlet Software Engineering Speaker Series
- Supercharge Prototyping with NextSketch • Medium.com

## Interests

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