

James Huang

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EXPERIENCE

- VGS • Software Engineer** May 2025 - Present
- Migrate 5+ outdated CI pipelines for high-visibility, tier-1 services from CircleCI to GitHub Actions across all engineering teams, improving development velocity and reducing pipeline CPU usage by 50% through optimized job orchestration and concurrency
 - Refactor and modularize testing pipelines into parallelized jobs to improve test visibility, accelerating feedback cycles
 - Introduce Orca security scanning for vulnerabilities, YAML linting, release-please for semantic versioning, and Docker image tagging using metadata annotations and multi-stage build definitions to ensure consistent and traceable release artifacts
 - Create reusable workflows to publish Maven artifacts and push images to production ECR for standardized artifact delivery
 - Automate Kubernetes and Helm deployments in internal GitOps repos to synchronize chart versions with product releases, ensuring consistent multi-environment rollouts and minimizing developer overhead
- Chickasaw Nation Industries, Inc. • Software Engineer** Oct 2024 - Apr 2025
- Modernized a legacy Microsoft Access VBA-based data analytics tool to a C# and ASP.NET web application to improve quality of life and operational efficiency for federal employees, eliminating reliance on a decades old system
 - Architected comprehensive AWS infrastructure and optimized MySQL tables to support a scalable and efficient cloud migration
- Dev-Overflow • Software Engineer** Aug 2023 - Oct 2024
- Built an end-to-end data pipeline to scrape 20+ global banking websites with Playwright and automate storage with DynamoDB and AWS Lambda, supporting real-time processing and client alerts within 12 hours of 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%
 - Introduced 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
 - 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
 - Wrote 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
- OSLabs • Software Engineer** Jan 2023 - Aug 2023
- Led 0-to-1 development of NextSketch, a Next.js prototyping tool with real-time code and page visualizations, streamlining developer productivity for the open source community and earning 100+ GitHub stars

PROJECTS

- Clearview •** Developed a deep learning model with Tensorflow/Keras using Convolutional Neural Networks and image recognition to detect and classify chest cancer types with a 75% accuracy rate
- Alley •** Created a tennis court locator application enabling users to search, filter, favorite courts and add personalized notes

EDUCATION

- Georgia Institute of Technology • M.S. in Computer Science & Specialization in Artificial Intelligence** Expected May 2027
Relevant Coursework: Machine Learning for Trading (CS7646)
- Stony Brook University • B.A. in Biology & Minor in Health, Medicine, and Society** May 2023

TECHNICAL SKILLS

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| Languages | Python, Bash, TypeScript, JavaScript, Java, C#, SQL, HTML, CSS |
| Libraries & Frameworks | NumPy, Pandas, Tensorflow, Keras, Node.js, React, Next.js, Redux, Express, MaterialUI, TailwindCSS, Spring Boot, JUnit, Jest, Playwright, PyTest |
| Tools | AWS (ECR, Lambda, EC2, DynamoDB, CloudWatch, S3), Docker, GitHub Actions, CircleCI, Maven, Kubernetes, Helm, Terraform, Linux (Ubuntu), PostgreSQL, MongoDB, Git, webpack, Vite, Babel, Vercel, |
| Certifications | AWS Solutions Architect Associate |

INTERESTS

Marathon / Long Distance Running • Dragon Boat • Lion Dance • Cooking Meals From Scratch • Teamfight Tactics • Tennis