

Nolan Yee

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EDUCATION

The University of Texas at Austin

Bachelor of Science in Computer Science

Forty Acres Scholar - Selected as 1 of 20 (from 90k+) recipients of UT Austin's premier full-ride, merit-based scholarship

Relevant Coursework: Data Structures, Computer Architecture, Statistics, Computational Biology, Discrete Math, Calculus I-III

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C++, C, TypeScript, SQL, HTML/CSS, MySQL, MongoDB, PHP, MATLAB, R, Dart

Frameworks & Libraries: React, Node.js, Express.js, Flask, Spring, PyTorch, Bootstrap, Tailwind, Flutter

Technologies & Tools: Git, GitHub, Docker, Maven, Jupyter Notebook, Firebase, AWS, Vercel, Heroku, JUnit, Bash, REST APIs

EXPERIENCE

Bubble

October 2025 - Present

Cofounder

- Built a prompt-first relationship management app, translating natural-language input into structured networking workflows
- Implemented an LLM action agent that executes CRUD and query operations with 95% accuracy, prompting users with context
- Optimized the contact data layer with normalized schemas and Redis caching, reducing average query latency by 45%

Texas Convergent

September 2025 - Present

Software Engineer

- Engineered a cross-platform React Native app for music collaboration, managing the full lifecycle from MVP to investor pitch
- Optimized feed performance by 40% through an infinite-scroll implementation, handling 300+ media uploads via Firebase
- Collaborated in a 7-person Agile team to ship core messaging and workspace features across 12 weekly development sprints

EchoWellness

June 2023 - April 2025

President & Lead Web Developer

- Developed a full-stack fundraising platform using React and PHP, increasing donor outreach by 30% and site traffic by 120%
- Automated donor outreach systems for 150+ users via PHP, reducing manual coordination by 80% and raising \$10,000+
- Engineered modular UI components with Bootstrap to streamline registrations, resulting in a 35% increase in donations

Missouri University of Science and Technology

May 2024 - November 2024

Research Intern

- Synthesized 30+ sources in HCI and cognition to research human perception of AI, identifying key trends in generative AI bias
- Analyzed 200+ LLM and GAN outputs using NumPy, Pandas, and Matplotlib to evaluate human responses and visualize trends
- Automated data cleaning and significance testing for 2,500+ datapoints with Python, reducing manual prep time by over 60%

PROJECTS

Singularity Business Website | Flask, GPT-3 (OpenAI API), Python, Firebase, jQuery, CSS, HTML

- Created a full-stack business website prototype to demo GPT-3 product, automating 500+ simulated customer support queries
- Designed responsive UI/UX with jQuery, CSS, and Flask templates, reducing frontend redundancy by 40% and load time by 25%
- Engineered a context-aware chatbot using Python and OpenAI API, trained on company data for real-time user interaction

Via - UT Campus Navigation Assistant | Flutter, Supabase, PostgreSQL, PostGIS

- Built a UT student navigation app featuring an immutable data model for normalizing and discovering crowdsourced GPS routes
- Developed a spatial discovery engine with PostGIS and GIST indexing, enabling sub-200ms queries across campus-scale datasets
- Implemented a ranking algorithm using temporal decay and social voting to prioritize routes based on user criteria

Music Genre Classification Neural Network | PyTorch, Python, NumPy, Pandas, Scikit-learn

- Built a PyTorch neural network to classify song genres by audio features, achieving 72.4% accuracy across 1,000+ song samples
- Engineered a data preprocessing pipeline using NumPy and Scikit-learn for automated normalization and feature encoding
- Fine-tuned architecture via GridSearchCV, implementing ReLU, Batch Normalization, and Dropout to mitigate overfitting

Image Manipulator | Java, Spring, Maven

- Architected a Spring-based image processing engine supporting high-resolution 4,000x4,000px edits and multi-format exports
- Optimized pixel-level manipulation routines, leveraging efficient data structures to reduce average operation runtime by 35%
- Engineered chroma-key compositing with adaptive mask refinement for seamless background replacement (green/blue screen)

ACTIVITIES

Engineering Fellow

September 2025 - Present

Texas Product Engineering Organization

- Selected as 1 of 10 from 250+ applicants to solve complex problems using innovative software solutions in the Austin community
- Collaborating on a New Fellow Project with engineering, design, and product peers to develop a real-world application

HONORS

National Merit Scholarship Winner (0.5%) | 4x AIME Qualifier (top 2.5%) | USA Computing Olympiad Gold (top 7.5%)