

Paul Nguyen

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EDUCATION

University of Illinois Urbana-Champaign

Masters in Computer Science

Champaign, Illinois

Expected May 2027

Oregon State University

Bachelors of Science in Computer Science, 3.8 GPA

Corvallis, Oregon

Graduated August 2025

Affiliations: CodePath, OSU App Development Club, OSU Hackathon Club

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C, SQL, HTML/CSS

Frameworks/Technologies: React, Next.js, NestJS/Node.js, Express, Django, Flask, GraphQL, Tailwind, Material UI

Databases: MySQL, PostgreSQL, MongoDB

Cloud/Infra: AWS, Docker, Firebase, Nginx

Testing/CI: Playwright, Jest, Cypress, GitHub Actions

WORK EXPERIENCE

Software Engineer Intern

NASA Johnson Space Center

January 2025 - May 2025

Houston, TX

- Developed a Next.js dashboard with React Recharts and Mantine Table, automating analytics and equipment lifecycle tracking workflows, reducing manual processes by 90% and saving 18+ hours per month
- Built a Django + PostgreSQL backend to process 500,000+ exercise records spanning 10+ years from 300+ astronauts, designing efficient schemas and optimizing queries to streamline ISS mission data analysis workflows
- Optimized an MVC-based Flutter GUI, leveraging Flutter DevTools to reduce input latency by 20% and ensure seamless operation in low-gravity astronaut training

Software Engineer Intern

Lucid Motors

May 2024 - November 2024

Newark, CA

- Engineered a change log feature in React/TypeScript, syncing authorized user edits to the NestJS backend for real-time tracking, enhancing auditability and accelerating approval decisions for 200+ supplier workflows
- Resolved RBAC and supplier data issues by updating NestJS modules and refining AWS S3 buckets with Lambda Functions, improving weekly reporting and reducing data inconsistencies by 40% for Global Supply Managers
- Achieved 85% coverage on supplier onboarding E2E tests in Playwright, reducing manual QA by ~20% weekly

Software Engineer Intern

Summersalt

May 2023 - May 2024

Remote

- Migrated legacy jQuery code to React, improving page rendering by 25% and reducing cart load time by ~1s
- Shipped seasonal features with TypeScript and Remix, boosting engagement and driving \$35K+ monthly growth
- Optimized GraphQL queries for user and product data, cutting query latency by 40% and improving load times on high-traffic product pages

PROJECTS

PromptMail Capstone Project | *TypeScript, NestJS (NodeJS), MongoDB, Firebase, OpenAI API*

[Github](#)

- Led backend development for a 4-person team, designing schemas, implementing JWT authentication, and deploying 5+ RESTful APIs with Auth Guards to power GenAI email workflows for summarization and replies
- Oversaw all backend pull requests and embedded OpenAI GPT into NestJS, leveraging Swagger and Postman to validate endpoints and enhance API reliability, reducing debugging time by 30%

BeavsHub | *TypeScript, React, Redux, NestJS (NodeJS), MongoDB, Framer Motion*

[Github](#) [Link](#)

- Crafted a responsive React app with Framer Motion animations, enabling real-time access to 2K+ course reviews
- Implemented a NestJS + MongoDB backend to ingest and process live data via Google Sheets API, designing custom schemas and service logic with pagination for real-time querying and seamless front-end integration
- Established CI/CD with Playwright (frontend) and Jest (backend), ensuring consistent quality across deployments