

# Paul Nguyen

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## EDUCATION

### University of Illinois Urbana-Champaign

*Masters in Computer Science*

Champaign, Illinois

August 2025 - May 2027

### Oregon State University

*Bachelors of Science in Computer Science, 3.8 GPA*

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

Corvallis, Oregon

January 2022 - August 2025

## 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 (Lambda, S3), 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*

- Delivered a Next.js analytics dashboard using React Recharts and Mantine Table, automating equipment lifecycle tracking and reducing manual workflows by 90%, 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 for a wobble board fitness tool with Flutter DevTools, reducing controller input latency by 20% to ensure smooth, reliable performance 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 expediting approvals for 200+ supplier onboarding 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 30+ Global Supply Managers
- Achieved 85% coverage on supplier onboarding E2E Playwright tests, reducing manual QA effort by ~20% weekly

### Software Engineer Intern

*Summersalt*

May 2023 - May 2024

*Remote*

- Migrated a legacy jQuery codebase to React, improving rendering performance by 25% and reducing cart load time by ~1s during peak traffic
- Shipped seasonal features in TypeScript and Remix, using Google Analytics to drive \$35K+ in monthly revenue
- Optimized GraphQL queries for user and product data, cutting query latency by 40% and enhancing performance on high-traffic product pages

## PROJECTS

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

[Github](#)

- Led backend systems for a 4-person team, designing MongoDB schemas, implementing JWT authentication, and deploying 5+ REST APIs with Auth Guards, enabling GenAI email summarization and automated 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 cycles

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

[Github](#)

[Link](#)

- Built a React course review platform with a scalable NestJS + MongoDB backend, caching 2K+ reviews and enabling local storage for degree planning for ~20 students per semester via Google Sheets API and pagination

### Get Schooled! OSU Fall Hackathon | Python, Flask, JavaScript, HTML/CSS

[Github](#)

[Link](#)

- Led a 4-person team to deliver an educational trivia game in 24 hours, implementing a Flask backend and animated JavaScript UI across 4 categories for a responsive, engaging prototype