

# 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*

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

Corvallis, Oregon

*Expected August 2025*

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, Java

**Technologies:** React, NextJS, Redux, NestJS, NodeJS, Express, MongoDB, PostgreSQL, AWS, Docker, GraphQL, Django, Playwright

## WORK EXPERIENCE

### Software Engineer Intern

*NASA Johnson Space Center*

January 2025 - May 2025

*Houston, TX*

- Engineered a robust front-end with a multi-page Next.js/TypeScript dashboard for the ARED team, delivering filterable crew-exercise analytics, equipment lifecycle tracking, and CSV exports to streamline mission analysis
- Deployed a Django-based backend with PostgreSQL to ingest 10+ years of ISS exercise device data, enhancing data accessibility and supporting mission-critical analysis with efficient API design
- Configured a Raspberry Pi (Linux) wireless access point with Nginx to serve as a local web server, demonstrating hands-on experience with system-level networking and server management
- Technologies:** Python, Django, PostgreSQL, TypeScript, React (NextJS), Linux

### Software Engineer Intern

*Lucid Motors*

May 2024 - November 2024

*Newark, CA*

- Developed scalable components for Lucid's in-house supplier portal using React and TypeScript, refining user-facing features and collaborating with cross-functional teams to deliver quality software in a fast-paced environment
- Enhanced backend functionality by updating 10+ RESTful API calls in NestJS, addressing RBAC and supplier issues to maintain data integrity and improve overall system reliability
- Designed data-driven automated test suites with Playwright to achieve approximately 85% test coverage on supplier onboarding, reducing manual QA efforts and reinforcing robust software validation
- Technologies:** TypeScript, React, Redux, NodeJS (NestJS), MongoDB, Python, AWS, Playwright, Jest

### Software Engineer Intern

*Summersalt*

May 2023 - May 2024

*Remote*

- Refactored legacy jQuery code to React, leveraging the existing website as a foundation, which boosted render performance by 25% and improved user cart load responsiveness by up to 2 seconds
- Delivered promotional components using TypeScript and Remix, driving a \$35K+ increase in monthly revenue
- Introduced CI/CD pipelines via GitHub Actions & Cypress for automated testing, diminishing regressions by 10%
- Refined GraphQL queries for more accurate and efficient data retrieval, boosting application performance
- Technologies:** TypeScript, React, Redux, GraphQL, Remix, SCSS, jQuery (JavaScript), NodeJS, Cypress

## PROJECTS

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

[Github](#)

- Designed database schemas and led backend development in a team of 4 using NestJS, implementing JWT guards and secure CRUD functionality across 5+ RESTful APIs to support authentication and data protection
- Oversaw backend pull requests and collaborated on prompt engineering with OpenAPI's API, facilitating API design with Swagger and testing with Postman to ensure reliable GPT integration and consistent API behavior

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

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

- Built a responsive React app with Framer Motion animations, enabling users to explore course reviews intuitively
- Established 5+ NestJS RESTful APIs to streamline MongoDB course data access and simplify front-end queries
- Initiated CI/CD pipelines using Playwright for end-to-end frontend testing and Jest for backend API coverage, ensuring consistent code quality across deployments