

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

Graduated 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 provide 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