

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

- Led and architected the development of 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
- Initialized a Django backend with PostgreSQL to ingest 10+ years of ISS exercise device data, improving accessibility for future mission explorations
- Built a Raspberry Pi (Linux) wireless access point by configuring Nginx to serve as a local web server
- Technologies:** Python, Django, PostgreSQL, TypeScript, React (NextJS), Linux

Software Engineer Intern

Lucid Motors

May 2024 - November 2024

Newark, CA

- Developed scalable components within Lucid's in-house supplier portal using React and TypeScript, debugging deprecated code and delivering new features reliably each sprint
- Updated 10+ RESTful API calls in NestJS, addressing RBAC and supplier issues to maintain data integrity
- Achieved approximately 85% test coverage on onboarding suppliers and supplier information by designing data-driven automated test suites using Playwright, minimizing manual QA efforts by 30%
- 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 reduced page load time by 2 seconds
- Implemented promotional components using TypeScript and Remix, driving a \$35K+ increase in monthly revenue
- Introduced CI/CD pipelines with GitHub Actions and Cypress for automated testing, reducing 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, OpenAPI

[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, 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+ RESTful API endpoints with NestJS to streamline course data access from MongoDB, reducing frontend query complexity
- Initiated CI/CD pipelines using Playwright for end-to-end frontend testing and Jest for backend API coverage, ensuring consistent code quality across deployments