

Neel J. Patel

(219) 315-3692 | [Portfolio](#) | neelp2023@gmail.com | www.linkedin.com/in/neelpatel0304 | www.github.com/neelpatel23

Education

Purdue University

West Lafayette, IN

Bachelor of Science in Computer Engineering Technology

August 2023 – December 2026

GPA: 3.31 / 4.00

- Pursuing Minors in Computer Science and Computer Information Technology
- Relevant Coursework: Data Structures & Algorithms, Embedded Digital Systems, Concurrent Digital Systems, C-Programming, Digital C

Experience

Catapult @ Purdue

West Lafayette, IN

Project Innovation Lead

August 2024 – Present

- Spearheaded a multidisciplinary team developing next-generation propulsion systems, resulting in 40% increased energy efficiency and successful patent application
- Led design and implementation of advanced prototyping techniques, reducing development cycles from 6 months to 8 weeks while maintaining rigorous quality standards

Orbital Logistics

Chicago, IL

Program Manager

May 2024 – July 2024

- **Pioneered drone delivery optimization algorithms** for last-mile logistics, implementing route optimization techniques that reduced delivery times by 27% and fuel consumption by 18% across Chicago's urban center
- Led cross-functional teams in tackling complex engineering challenges, utilizing JavaScript, React, and Python to implement scalable solutions, improving system responsiveness and usability by over 30%.

Project RISHI (Rural India Social Health Improvement)

West Lafayette, IN

Member

August 2024 – Present

- Collaborating with a team of students to address pressing health and social issues in rural communities across India.
- Engaging in research and data collection to develop sustainable solutions for improving access to healthcare, education, and clean water in underdeveloped regions.

BAPS (Bochasanwasi Shri Akshar Purshottam Sanstha)

Robbinsville, NJ

National Development IT Lead

June 2022 – Present

- **Led** the Front End development team and **volunteered** in various IT sectors to support the Hindu culture for devotees worldwide.
- **Developed and managed** small and large-scale apps and websites for the organization, serving national and regional communities.
- Employing **Jenkins** and other Dev Ops tools and frameworks to push and deploy for both Front and back-end code bases, overseeing a nationwide volunteer developer community and its efforts and dedication to operations.

Projects

Find Your Nature (F.Y.N)

July 2024 – August 2024

- A web app to allow users to research national parks around them and find reviews from other users to help them make informed decisions on the best attractions to visit.
- Designed and built the Front End leveraging **HTML/CSS** and acquired data from the National Parks Services and **Google Maps APIs** utilizing **JavaScript/jQuery**; applied **Firebase** to store, and review feedback from users.

Therify

January 2024 – May 2024

- Applied **MVC** design pattern to build the app leveraging **React Native, MongoDB, Express, Node, & Socket.io**, and Google Maps API to verify the location of users' images.

Technical Skills

Languages: Java, JavaScript, Swift, SQL, TypeScript, Go, Python, R

Frameworks: React.js, Node.js, Express.js, AngularJS, React Native, Redux, Flask, Django, PyTorch, TensorFlow, GraphQL, REST APIs, AWS (Airflow, S3), Docker, Kubernetes, Jenkins, Google Test, Bazel, Webpack, Babel

Other Tools/Technologies: Heroku, Netlify, MATLAB, Excel, Access, Power BI, MySQL, PostgreSQL, MongoDB, HTML, CSS, Git, Linux, Terraform