

# Neel J. Patel

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## Education

### Purdue University

West Lafayette, IN

Bachelor of Science in Computer Engineering

August 2023 – December 2026

GPA: 3.63 / 4.00

- Pursuing Minors in Computer Science and Computer Information Technology
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Design with C++, Python & Data Science, Computer Security & Cryptography, Computer Architecture, Game Theory, Investments, DAQ And Systems Control, Technical Writing, Embedded Digital Systems, Concurrent Digital Systems

## Experience

### The Data Mine at Purdue University

West Lafayette, IN

Undergraduate Machine Learning Researcher

August 2024 – Present

- Led a **statistical ML** team in collaboration with Howmet Aerospace, using **Agile** Project Management to deliver a quality control machine learning model in **4** months, reducing Howmet's turbine blade inspection time by **30%**.
- Utilized **Python**, **TensorFlow**, and **PyTorch** to train, test, and validate **80+** datasets comprising hundreds of real images, successfully implementing a machine learning image classification model with **87%** accuracy.

### CodePath Emerging Engineers Summit

San Francisco, CA

- Networked with engineers and recruiters from leading tech companies such as **Google**, **Snap**, **Netflix**, **Amazon**, **Bloomberg**, **Microsoft**, **Salesforce**, **DocuSign**, **Splunk**, **Workday**, **Notion**, **Oracle**, **Pinterest**, and **ServiceNow**.

### Google Inc

Chicago, IL

STEP Program Intern

May 2024 – July 2024

- **Collaborated on high-impact projects** with a focus on optimizing performance, leveraging cutting-edge algorithms to enhance user experience and operational efficiency in web and mobile applications.
- 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 **Firestore** 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