

Erik Nelson

(317)-677-2009 • ecnelson@purdue.edu • [linkedin.com/in/erik-nelson1/](https://www.linkedin.com/in/erik-nelson1/)

Education

Purdue University - West Lafayette, IN May 2025
Bachelor of Science in Computer Science, Software Engineering Track. Minor in Management
Cumulative GPA: 3.6/4.0 – Dean's List and Semester Honors
Coursework: Analysis of Algorithms, Software Engineering I, Information Systems, Statistics, Financial Management
Carmel High School: National Merit Scholar and Distinguished Graduate May 2021

Professional Experience

Crowe LLP – *GRC Technology Consulting Intern* – Chicago, IL June – August 2024

- Reworked databases utilizing Java and PostgreSQL to ensure accurate graph data on proprietary accelerator.
- Implemented JavaScript functionality in Mendix to create dynamic data tables drawn from API requests.
- Constructed a questionnaire workflow using Archer to help clients identify risks with associated vendors.

Numerco Ltd. - *Software Development Contractor* - Remote January 2024 - Present

- Integrated Firebase database functionality and improved features for a uranium trading Flutter application, allowing for persistent communication with clients and accurate real-time pricing.
- Built an automatic pricing and spreads tool with Python and Selenium by scraping data from daily pricing reports.
- Developed and implemented an algorithm in VBA to model future cash flows and liquidity over a 60-day period.

ClearObject Inc. - *Full Stack Software Engineering Intern* – Fishers, IN May - August 2023

- Built a pipeline of the company's proprietary vision AI platform using Python, Jupyter Notebook, and TensorFlow to analyze footage of continuous manufacturing processes. Further increased utilization with Google Cloud Platform by piping in data feeds of alignment and performance of machinery and material.
- Designed the pipeline to allow the marketing team to demonstrate the full capabilities of the vision AI system.

Giant Eagle Market District - *Sales Associate* - Carmel, IN May – August 2021; May – August 2022

N&Y Ventures LLC - *Co-Founder* - Carmel, IN December 2019 – June 2021

- Sold tens of thousands of dollars in history merchandise through an online store powered by Shopify.
- Leveraged our Instagram history content account and an extensive marketing campaign in collaboration with other history content influencers to build a customer base and generate sales.

Projects

Options Calculator – NextJS, TypeScript, and Python

- Created a website allowing users to use Black-Scholes or Binomial Option models to price stock-options.
- Applied the Finazon API to provide live-stock data to let users track profitability of current options.

JobPilot.tech – NextJS/NestJS, TypeScript, and AWS

- Utilized agile development methods in a team setting to build a recruiting platform with database persistence.
- Integrated Auth0, SendGrid, and ChatGPT to provide authentication, email support, and auto-grading functionality.

Leadership and Activities

Purdue Solutions - *Strategic Consultant* January 2022 – Present

- Curated a market entry strategy for IMI PLC subsidiary to enter the semiconductor equipment services market.
- Identified avenues of growth for a freelance startup company and created an executable growth strategy.

Purdue Interfraternity Council - *Associate Chief Justice* January – December 2023

- Adjudicated conduct cases for Interfraternity Council fraternities and assisted in implementation of IFC policy.

Director of Administration June – December 2022

Associate Vice President of Administration January – June 2022

Beta Theta Pi Fraternity - *Vice President of Education* January – November 2023

- Helped new member class achieve a higher-than-average GPA of 3.27 vs. first year average of 3.18.

Vice President of Risk Management August – December 2022

Skills

Languages/Frameworks: Python, Java, Javascript, SQL, C/C++, React, and NodeJS

Other: Microsoft Office Suite, Jupyter Notebook, Git, TensorFlow, PyTorch, Google Cloud Platform, and Mendix