UNIVERSITY OF LOUISVILLE®

J.B. SPEED SCHOOL OF ENGINEERING

Jay Patel

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EDUCATION	**Bachelor of Science in Computer Science & Engineering**	August 2025
	J.B. Speed School of Engineering, University of Louisville, Louisville, Kentucky	**GPA 3.88/4.0**
	In Progress	Hours Completed: 140.75
	Bachelor of Science in Aeronautical Engineering	January 2020 - July 2021
	Universidad Tecnológica de Panamá, Panama City, Panama	**GPA 2.60/3.0**
	Not Completed	Hours Completed: 65
	H.S. Diploma in Science and Arts with emphasis in Banking	March 2014 – December 2017
	Escuela Panama – Panama School, Panama City, Panama	**GPA 4.5/5.0**

SKILLS/COURSEWORK

- HTML, PHP, Javascript
- C, C++, Java, Python, Kotlin
- Mobile Development (iOS & Android)
- Software Development
- FPGA / Arduino
- Computer Hardware Maintenance
- Trilingual

- SQL
- Artificial intelligence
- Embedded System
- Programable Logic Design (PLC)
- HMI / SCADA
- Algorithm & Cryptography
- Microcomputer & Operating system Design

APPLIED EXPERIENCE

Course Projects:

Artificial Intelligence: Engineered a comprehensive TSP solution encompassing brute force, BFS, DFS, heuristic, genetic algorithms, and Wisdom of Crowd methodology, demonstrating a mastery of diverse AI techniques to efficiently address the intricacies of route optimization and contribute to the field of algorithmic decision-making.

Minesweeper with AI: Developed a Minesweeper game in C# and integrated an AI solver for strategic mine detection, showcasing proficiency in game development and artificial intelligence.

Software Development: Designed and implemented Stock++, a comprehensive stock market tool enabling users to navigate and filter real-time stock data through a user-friendly interface, enhancing investment strategies by offering personalized analysis and trend identification.

Cornerstone Project: Project in which we had to work with creativity, 3D printing, programming, and circuitry. In this project we designed parts to be able to mount it to a sewage system. The pieces were connected to a circuit and Arduino which calculated the purity level of the treated water.

Capstone Project: Developed a MoCA test app for individuals with dementia, designed to assess cognitive function. The app evaluates the test results and, if passed, unlocks the user's car to allow driving. Aimed to enhance safety and independence for people with dementia.

WORK EXPERIENCE

Alorica	March 2019 – June 2019
Call Center Agent	Panama City, Panama

- Utilize communication skill and empathy for customer service. Utilize different technical skill to give tech support for the different devices.
- Utilize of analytical skill to solve varieties of billing problem, or application problem.

Diversified Automation Inc	January 2024 – July 2024
Software Co-op	Louisville, Kentucky

- Conducted system testing, commissioning, and QA testing for systems and panels, including associated computers and monitoring software.
- Developed and optimizes software systems HMI, SCADA and PLC systems.
- Performed both office and field startup activities as assigned.

ACTIVITIES/HONORS Volunteer in nursing homes raising funds and spending time with abandoned seniors.

EXTRA COURSES
PHP with MySQL Essential Training (LinkedIn).
Ignition 8.1 IU Credential (Inductive Automation)
Microsoft Office Specialist in Word / Excel / PowerPoint (Microsoft)