

Annsh Navle

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EDUCATION

Purdue University <i>Bachelor of Science – Double Major in Computer Science and Physics</i> GPA: 3.86/4.00 – Dean's List (All Semesters)	West Lafayette, IN May 2027
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EXPERIENCE

Vice President Projects <i>Purdue Stack</i>	February 2025 – Present <i>West Lafayette, Indiana</i>
<ul style="list-style-type: none">Leading 6 SCRUM-based projects with 50+ developers, integrating CI and code reviews to improve delivery speedBuilt Electron + OpenCV app for Akina Inc. to automate particle analysis, cutting time from 7 days to minutesLeading React/Node TA-assignment system matching 180 TAs to courses in seconds with OR-Tools	
Software Engineer (Full Stack) Intern <i>Mindcraft Software Ltd.</i>	May 2024 – July 2024 <i>Mumbai, India</i>
<ul style="list-style-type: none">Built Spring MVC backend for banking platforms, writing 26,000+ lines of code across KYC and payment modulesCreated Angular 16 UI for LLM-based product DocGPT, enabling users to prompt and query large documentsDeveloped Spring/Angular training portal with JWT-secured login and quizzes, accelerating employee onboarding	
Backend Developer Intern <i>Indepay</i>	June 2022 - July 2022 <i>Jakarta, Indonesia</i>
<ul style="list-style-type: none">Developed backend services with Node.js and Express to support mobile transactions and digital wallet onboardingIntegrated third-party payment and KYC APIs using OAuth 2.0, reducing partner integration time by 40%Improved backend reliability by debugging TCP socket connections and simplifying data transmission logic	

PROJECTS

CS Alumni Dashboard <i>React, Node.js, Express, PostgreSQL, Purdue SSO</i>	May 2025 - August 2025
<ul style="list-style-type: none">Built full-stack dashboard to search and filter 3,000+ Purdue CS alumni by company, role, track and grad yearEngineered secure SSO login, server-side filters, and modular admin tools with CSV upload and moderationDesigned salary trend visualizations, internship outcome flows, and exportable reports using D3.js and Chart.js	
ScrollFree <i>Android (Kotlin), ML Kit, SpeechRecognizer, Accessibility API, TensorFlow</i>	July 2025 – September 2025
<ul style="list-style-type: none">Built first-of-its-kind Android app for hands-free scrolling on Reels/TikTok using blink, tilt, and voice triggersUsed Google ML Kit for real-time blink/tilt detection and SpeechRecognizer API for custom voice commandsIntegrated AccessibilityService and WindowManager to perform swipe gestures across third-party appsTraining on-device voice model with TensorFlow Lite to enable personalized, low-latency voice triggers	
Quantum Blackjack <i>Qiskit, IBM Quantum, React, Node.js, Flask, D3.js</i>	July 2025 - September 2025
<ul style="list-style-type: none">Created first-of-its-kind web game to teach quantum computing concepts through a strategic Blackjack variantImplemented probabilistic card logic using Qiskit simulators and quantum circuits on IBM QuantumBuilt React frontend with D3.js-based tutorial overlays to explain game mechanics and quantum principlesDeveloping AI-enhanced dealer logic using quantum-aware decision trees for dynamic, strategy-based interactions	
Chemical Safety Library <i>Python, Jupyter, Selenium, scikit-learn, Matplotlib</i>	August 2023 – December 2023
<ul style="list-style-type: none">Expanded chemical hazard database by 20% using Selenium-based web scraping from ACS and online resourcesTrained Random Forest classifier using scikit-learn to predict high-risk reactions based on chemical reactivityRanked predicted hazards and visualized insights using Matplotlib dashboards for research team decision-making	

TECHNICAL SKILLS

Languages: Java, Python, Kotlin, Swift, C/C++, SQL, JavaScript, TypeScript, HTML, CSS, R, x86-64 Assembly
Frameworks & Libraries: React, Node.js, Express, Angular, Spring Boot, Flask, TensorFlow, scikit-learn, pandas, NumPy, Matplotlib, OpenCV, Selenium, Bootstrap, PyQt6, Shiny, ggplot2, D3.js, Chart.js, Qiskit
Developer Tools & Environments: Git/GitHub, VS Code, IntelliJ, Eclipse, PyCharm, Xcode, Android Studio, Jupyter, Electron, Vim, gdb, Linux CLI, Agile, SCRUM