

Annsh Navle

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EDUCATION

Purdue University

Bachelor of Science – Double Major in Computer Science and Physics

GPA: 3.86/4.00 – Dean's List (All Semesters)

West Lafayette, IN

May 2027

EXPERIENCE

Vice President Projects

Purdue Stack

February 2025 – Present

West Lafayette, Indiana

- Leading 6 SCRUM-based projects with 50+ developers, integrating CI and code reviews to improve delivery speed
- Built Electron + OpenCV app for Akina Inc. to automate particle analysis, cutting time from 7 days to minutes
- Leading React/Node TA-assignment system matching 180 TAs to courses in seconds with OR-Tools

Software Engineer (Full Stack) Intern

Minecraft Software Ltd.

May 2024 – July 2024

Mumbai, India

- Built Spring MVC backend for banking platforms, writing 26,000+ lines of code across KYC and payment modules
- Created Angular 16 UI for LLM-based product DocGPT, enabling users to prompt and query large documents
- Developed Spring/Angular training portal with JWT-secured login and quizzes, accelerating employee onboarding

Backend Developer Intern

Indepay

June 2022 - July 2022

Jakarta, Indonesia

- Developed backend services with Node.js and Express to support mobile transactions and digital wallet onboarding
- Integrated 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 | *React, Node.js, Express, PostgreSQL, Purdue SSO*

May 2025 - August 2025

- Built full-stack dashboard to search and filter 3,000+ Purdue CS alumni by company, role, track and grad year
- Engineered secure SSO login, server-side filters, and modular admin tools with CSV upload and moderation
- Designed salary trend visualizations, internship outcome flows, and exportable reports using D3.js and Chart.js

ScrollFree | *Android (Kotlin), ML Kit, SpeechRecognizer, Accessibility API, TensorFlow*

July 2025 – September 2025

- Built first-of-its-kind Android app for hands-free scrolling on Reels/TikTok using blink, tilt, and voice triggers
- Used Google ML Kit for real-time blink/tilt detection and SpeechRecognizer API for custom voice commands
- Integrated AccessibilityService and WindowManager to perform swipe gestures across third-party apps
- Training on-device voice model with TensorFlow Lite to enable personalized, low-latency voice triggers

Quantum Blackjack | *Qiskit, IBM Quantum, React, Node.js, Flask, D3.js*

July 2025 - September 2025

- Created first-of-its-kind web game to teach quantum computing concepts through a strategic Blackjack variant
- Implemented probabilistic card logic using Qiskit simulators and quantum circuits on IBM Quantum
- Built React frontend with D3.js-based tutorial overlays to explain game mechanics and quantum principles
- Developing AI-enhanced dealer logic using quantum-aware decision trees for dynamic, strategy-based interactions

Chemical Safety Library | *Python, Jupyter, Selenium, scikit-learn, Matplotlib*

August 2023 – December 2023

- Expanded chemical hazard database by 20% using Selenium-based web scraping from ACS and online resources
- Trained Random Forest classifier using scikit-learn to predict high-risk reactions based on chemical reactivity
- Ranked 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