NICHOLAS BOGAN

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SUMMARY

Computer Science student specializing in systems programming and OS development. Experienced in low-level optimization, research, and teaching, with 5 semesters of TA work and an internship at Ecolab

EDUCATION

Purdue University   *2022-2026*
Majoring in Computer Science   CS GPA: 3.9
Concentrations: Systems Programming, Programming Languages, and Machine Learning
Pursuing a minor in General Management

WORK EXPERIENCE

Digital Technology Intern, Ecolab   *2025*
-Built a POC dashboard that used Microsoft cloud services to monitor thousands of alarms
-Collaborated cross functionally with UX designers to display real data
-Presented the product to Ecolab VPs

Undergraduate Researcher, Gustavo Rodriguez-Rivera   *2024*
-Created an assembly profiler for detailed optimization of critical code
-Won 2nd place at the Purdue CERIAS research conference poster competition
-Profiler was used in the CS250 Computer Architecture class at Purdue

CS Lab Leader, Purdue   *2023 - Present*
-5 semesters including Computer Architecture and Systems Programming
-Developed automated tools to notify TAs when students posted questions on the student forum
-Created study material and exam guides for students

PROJECTS

SunriseOS, A functional toy OS with interrupts   *2025*
RISC Emulator, a RISC CPU emulator and assembler programmed in C
Nyx, Personal website programmed in ReactJS at bearly-codes.github.io   *2023*
Boiler Byte, full stack nutrition tracker programmed with React, NodeJS and MongoDB   *2023*
TA-Alert, Selenium based forum monitor, containerized with Docker   *2023*

SKILLS

Programming Languages: C, C++, Java, Python, R, Assembly
Web Development: HTML, CSS, JavaScript, ReactJS, Node.js, MongoDB
Systems & Tools: Linux/Unix, Git, QEMU, GCC Cross Compilers, GDB, Docker, Matlab, Azure
Certifications: AWS Certified Cloud Practitioner (2023), IDEO: From Ideas to Action (2023)
Soft Skills: Agile, Teaching, Public Speaking

HONORS

Dean's List, Purdue   *2022, 2023, 2024, 2025*
Member of Alpha Lambda Delta Phi Eta Sigma, Purdue Honors Society   *2022 - Present*
Indiana Freemason's Scholarship, Grand Lodge of Indiana   *2022, 2023, 2024, 2025*
Purdue Klinsky Scholar, 21 credit hours earned in 5 weeks   *2021*