Sagnik Pal

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Education

University of Massachusetts Amherst Expected Graduation: May 2026
Major: Computer Science (BS) | Minor: Physics GPA: 3.710/4.000

Distinctions: Chancellor's Award Scholarship ($16,000 annually), Dean's List Honors (semesters 1 & 2)
Coursework: Data Structures, Computer Systems Principles, Programming Methodology, Artificial Intelligence, Statistics, Discrete Math, Calculus II, Multivariate Calculus, Linear Algebra
Activities: FreshCICS, CICSoft SoftwareDev, ACM Cybersec and ML, Society for Physics Students

Experience

Manning CICS Undergraduate Course Assistant **Feb 2023 - present**

- Collaborate with instructors and teaching assistants to aid students taking the courses CICS160 Spring'23 (Object-Oriented Programming in Python and Java) and COMPSCI230 Fall'23 (Computer Systems Principles) comprehend the fundamentals of these topics.
- Evaluate homework assignments for 300+ students, offering constructive feedback to empower students
- Address inquiries from students on Piazza to elucidate core concepts and allay their course-related concerns

Manning CICS Undergraduate Research Volunteer **Jun 2023 - Aug 2023**

- Developed and evaluated Quantum Walk algorithms utilizing Qiskit framework
- Collaborated within a dynamic team of 5 Undergraduate Research Volunteers (URVs) under the mentorship of PhD student Matheus Andrade
- Orchestrated the synthesis of findings into a visually compelling infographic showcased at the UMass FirstFridayFair

Panethnic Pourovers Software Engineering Co-op **Sep 2023 - Nov 2023**

- Gained valuable real-world software engineering experience collaborating with cross-functional teams of project managers, designers, and engineers
- Developed modern web applications using React.js and Next.js, Apollo and GraphQL

Projects

UPlay! (devpost.com/software/uplay) **November 2022**
Web-based touch-first app aimed at college students as a sports player finder
Developed in 36 hours for HackUMass X. Winner of Best Beginner Software Hack

- Allocated tasks and collectively agreed on crucial decisions among a group of 8 people
- Implemented real-time notifications and sync using the **Notifications API** and **Socket.io**

DIY Smart Switchboard IoT **March 2021**
Development using Arduino and Python to control appliances remotely and autonomously

- Designed on a breadboard using relays, sensors and Arduino. Controlled via WiFi and IR

Skills

Programming Languages: C, C++, C#, Java, Python, Visual Basic, HTML/CSS, JavaScript
Technologies: ReactJS, Arduino, UWP, MySQL, Qiskit, Linux, VSCode, Git & GitHub