UDIT SAMANT

Bachelor of Advanced Computing and Bachelor of Science
Computer Science + Computational Data Science
The University of Sydney - 72 WAM
2025 Dec Graduation

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SKILLS

Programming - C Programming, C++, Python, Java, SQL, JavaScript, HTML + CSS, PHP, R Programming, Rust, Zig

Frameworks and Libraries *Python* - SciKit Learn, Unittest, Pandas, Flask, DJango, AysncIO + AsyncHTTP, Uvicorn ASGI; *Java* - Processing, JUnit, JaCoCo, JavaFX, Gradle; *JavaScript* - React, Next.Js, Vue, Nuxt 3, HTMX

Development - Agile Development, SCRUM, Git, Jenkins, CI/CD, Unit Testing, Black Box Testing

Networking and Security - Nginx, RestAPIs + CORS + CRSF Protection, Ethical Web Hacking (XSS, CRSF, DOM Clobbering, Command Injection, PHP Attacks)

Systems Engineering - Linux, Bash Scripting, Docker,

Languages - English (Native), Odia (Native), Hindi (Intermediate), Mandarin (Basic)

EXPERIENCE

OFence, Research Project, The University of Sydney   *July 2024 - Present*

- Research memory barrier (fences) related bugs in the Linux Kernel.
- Automate conversion of kernel read, write and general barriers to acquire release semantics.
- Automate generation of comments for barriers in cases acquire-release is not possible.

Data Science Internship, FreeGuides   *Oct 2022 - Jan 2023*

- Directed the end-to-end process of creating and machine learning models, using Python, and SciKit Learn.
- Utilised Firebase, BigQuery, and Cloud Functions to productionalise models onto the application back-end.

PROJECTS

UniTrack, Personal Project %○   *Jun 2022 - Present*
This project won USYD Coding Fest's Best Undergraduate Junior Project   **$2000**

- Developed a prototype for the first interactive degree planning web-app for Sydney Students.
- Utilised React, Next.JS, and Vercel to implement validation of degree requirements, drag-and-drop course selection, and a simplified navigation of multiple key pages.

Crawl, Personal Project %○   *Jun 2022 - Present*
Sydney Computing Society Annual Hackathon Finalist

- An app designed to reduce the friction of planning events with friends.
- Made using React Native, Expo, Pyhon and Google Maps API.

EXTRACURRICULARS AND CLUBS

Technical Events Coordinator, Google Developers Student Club   *Jun 2022 - Aug 2023*

- Co-directed a technical team of 40+ dedicated to organizing events aimed at introducing students to emerging technologies.
- Successfully led the planning and execution of 4 events, **attracting over 700 attendees**.
- Presented and demonstrated at an Introduction to Game Development Workshop for 100+ attendees and inspired students to explore creative programming projects at the succeeding Game Jam Competition Event.

Developer Lead, Sydney Computing Society   *Sep 2024 - Present*

- Co-lead a team of developers to design and implement systems supporting SYNCS events and infrastructure.
- Maintain and build structures for the society on ASP.NET, NextJS, Docker, SQLCmd, Microsoft Azure.
- Manage basic system administration with VaultWarden, Ventraip, Cloudflare, Notion.

Software Developer, Sydney Quant Traders   *Sep 2022 - May 2023*

- Optimised and developed discord extension to a mock-trading platform.
- Simplified UI using Discord.JS API, to create a trading platform integrated with discord chat, **leading to increased turnout during mock-trading events**.

SCHOLARSHIPS AND AWARDS

Vice Chancellor's Mobility Scholarship, The University Of Sydney   *Jul 2022*

Selected and received a mobility scholarship to represent The University of Sydney as a student ambassador to Nanyang Technological University (NTU), Singapore. Took part in Entrepreneurship, Systems Thinking, Design Thinking, and Cultural intelligence classes at NTU.

Dalyell Mobility Scholarship, The University Of Sydney   *Feb 2024 - Jun 2024*
New Colombo Plan Mobility Grant, The University Of Sydney   *Feb 2024 - Jun 2024*

Received **$10,000** from two scholarships to undertake an exchange program at KAIST University, Korea.