Kartik Nair

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Bachelor of Software Engineering Honors at USYD

Education

Institution	Degree
The University of Sydney	Software Engineering Honours

Relevant Coursework

- Systems Programming
- Data and Information Management
- Data Structures and Algorithms
- Software Construction and Design 2
- Agile Software Development Practices
- Object-Oriented Programming

Skills

Technical Skills: Python (Data processing, Frameworks), C (Architecture design, Multi-threaded processing), Java (processing lib, JavaFX), R (Basic data processing), PostgreSQL, Scrum, Git.

Soft Skills: Communication, Collaboration, Teamwork, Problem Solving, Critical Thinking, Technology consulting

Languages: English (fluent), Hindi (fluent), Malayalam (basic)

Experience

Consulting Engineer – *Ampol [[Recommendation](#)]*   *(June 2024 – July 2024)*

- Developed a comprehensive Graphical User Interface (GUI) application using Python to conduct analysis and visualization for Ampol's internal operations.
- Integrated ChatGPT API for machine learning based data synthesis in the backend servers of the deliverable.

Spatial AI Entrepreneur Intern – *EON Reality*   *(January 2024 – February 2024)*

- Analysed market trends and competitor data to develop competitive pricing strategies.
- Proactively initiate cold calls to potential clients, employing persuasive communication techniques to engage and establish rapport.

Software Engineer Intern – *AdGrowth Solutions [[Recommendation](#)]*   *(October 2023 – January 2024)*

- Analysed and debugged existing code to identify and fix software issues.
- Skilfully utilize Bubble.io and Python to develop front-end interfaces for websites, integrating AI functionalities.
- Managed project tasks efficiently by creating Gantt charts and tracking progress via Trello.

Projects

Budgeting system   *(June 2024 – Present)*

- Implemented in Python, showcasing proficiency in object-oriented programming
- Utilized built-in libraries such as datetime, calendar, json, and os for core functionality
- Enhanced user experience with Colorama for color-coded outputs
- Employed file I/O operations for data management

Real-Time Hand Gesture Recognition   *(May 2024 – Present)*

- Gained proficiency in using OpenCV for image capture and processing, as well as MediaPipe for hand landmark detection.
- Developed a robust algorithm to interpret hand gestures based on landmark positions, enhancing my problem-solving and analytical skills.
- Strengthened my Python programming skills through the implementation of real-time processing and integration of multiple libraries.

Leadership Experience

Sydney Computing Society – *SYNCS*   *(March 2024 - Present)*

- Actively contributed to the Design and Marketing sub-committee, leveraging creative problem-solving and design skills to enhance the society's visual identity and promotional strategies.
- Collaborated with cross-functional teams to organize engaging events and workshops, fostering a vibrant community for computing enthusiasts and professionals.

Student Ambassador NSW – *Engineers Australia*   *(December 2023 - Present)*

- Served as a liaison between the student body and Engineers Australia, promoting the organization's resources, events, and initiatives to drive increased student engagement and participation.
- Represented the university at various Engineers Australia-led conferences and networking events, showcasing the exceptional talent and achievements of the engineering program.

Member of Core Executive Team – *Biotech Futures*   *(September 2023 – June 2024)*

- Actively contributed to the strategic planning and decision-making processes of the Biotech Futures executive team, providing valuable insights and recommendations to advance the organization's mission and goals.

Certification

Forage: Technology Consulting, Strategy Consulting, Agile Methodologies, Client Service, Project Management, Client Research