Bharat Sharma

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About Me
Bachelor of Advanced Computing student at the University of Sydney, majoring in Computer Science and Finance. Passionate about systems software, full-stack development, and building technologies that shape the future.

Education

University of Sydney — Bachelor of Advanced Computing
Major: Computational Data Science and Finance | 2023 – 2027

Experience

Sydney Interplanetary Rover Initiative: *Computer Vision & Perception Team Member* | 2024 – Present
- Trained rover perception systems for obstacle detection and terrain mapping using YOLOv8, ROS2, and OpenCV.
- Collaborated within the software team to enhance real-time environmental awareness models.

Enactus Sydney University: *Vice President of Startups* | Nov 2023 – March 2024
- Led and supported the growth of student-led startup projects within Enactus USYD.
- Mentored project teams and coordinated collaboration with advisors, and helped drive innovation in social entrepreneurship initiatives.

MindSafarii, Enactus Sydney University: *Psychological Software Developer* | Aug 2023 – March 2025
- Developed mental health-focused applications to promote psychological well-being of young students.
- Represented Sydney University at the Enactus Australia Nationals 2024 in Melbourne, achieving First Runner-Up.

SUDATA – Sydney University Data Society: *Web Developer* | 2024
- Designing and maintaining dynamic web interface for the society for better outreach and event promotions

Sydney University Mathematics Society: *Web Developer* | 2024
- Building web interfaces and resources for the society, improving member accessibility and event promotions.

Projects
- **Obstacle Detection Model for Planetary Rover** — Built a machine learning pipeline for terrain obstacle classification using Computer Vision tools and datasets.
- Authored the official Computer Vision Wiki for the project's design document, providing comprehensive technical documentation for future team reference and new contributors.
- **Mental Health Chat Application** — Helped to develop a lightweight, accessible mental health tool during my time at MindSafarii for young children and students.
- **Society Web Platforms** — Engineered dynamic and responsive websites for multiple USYD societies, streamlining information dissemination and member engagement.

Skills

Programming Languages:
Java, Python, JavaScript, HTML, CSS, C

Frameworks & Technologies:
React, Next.js, MongoDB, ROS2, YOLOv8, OpenCV, Git, Bash, Qiskit, NumPy, Figma

Software Tools: JIRA, PyCharm, Blender, Jupyter, GitHub, Git Bash, Ubuntu, VSCode, Notion

Soft Skills: Public Speaking, Communication, Leadership, Team Collaboration, Relentless Work Ethic, Curiosity, Creativity

Spoken Languages: English(Fluent), Spanish(Intermediate), Hindi(Fluent)

Theoretical Skills: Data Structures and Algorithms, Agile Practices, Securities trading Portfolio Creation and Management

Certifications & Achievements
- **Quantum Computing Certificate (Qubit by Qubit)** — The Coding School (USA), MIT, Oxford, IBM Quantum | 95% | Oct 2020 – May 2021

Publications
- **The BS Blog** – Latest Technology coverage and personal opinions on everything tech!
- **The Promise of Quantum Computing** — *Ceteris Paribus*, Economics Society, Shri Ram College of Commerce