

Shubham Sharma

✉ shubhamsharma2000310@gmail.com | 📞 0410127513
🌐 github.com/officialshubham | 🔗 linkedin.com/in/ai-shubham

Skills

Languages: C/C++, Java, Python, JavaScript, Rust, SQL, Golang, WebAssembly, Typescript

Technologies & Tools: AWS, Firebase, Node.js, GStreamer, WebRTC, Kubernetes, Docker, ReactJS, Android, d3.js, Flask, Redis, Power BI, Machine Learning, CI/CD, PostgreSQL, Microservices

Work Experience

Financial and Business Services, ANU, Canberra

Feb 2025 - Present

BI Developer

- Implemented and automate data flows and ETL processes for financial data, covering both YTD (Year-to-Date) and LTD (Life-to-Date) periods, leveraging TM1 and ES Financials.
- Developed BI reports and dashboards, increasing stakeholder decision-making efficiency by 30%, providing clear and actionable insights into key financial metrics.
- Built a BI solution to track and analyze Journal Entries, automating alerts with Power Automate, resulting in a 20% faster response time to increasing or decreasing entry trends.
- Power BI, Power Automate, SharePoint, SQL, RDBMS, Enterprise Systems

XtreamCompute, Canberra

Feb 2024 - Dec 2024

Software Engineer

- Enabled dynamic adjustments to streaming parameters (bitrate, FPS, resolution) using custom adaptive bitrate technology for cloud gaming product, enhancing it's streaming quality.
- Reduce the chances of incorrect reference times of frames by implementing a robust self correcting algorithm for frame data.
- Developed a customized GStreamer plugin in C compatible with rust server files to change the resolution of the stream for internal development team.
- Rust, GStreamer, Python, C, Docker, AWS

College of Health and Medicine, ANU, Canberra

Jul 2023 - Dec 2024

Data Project Intern

- Successfully automated data collection pipelines for the College of Health and Medicine department, increasing data acquisition efficiency by 40%.
- Built data reports for the College of Health and Medicine, significantly reducing analysis time compared to manual Excel searches. Build financial dashboard that streamlines financial analysis, goal-setting, and expense forecasting, providing a clear, data-driven view of performance
- Developed various python scripts to automate manual data collection, reducing manual data gathering time by 50%
- Python, Power BI, Beautiful Soup, DAX, Power Query, SQL

Education

Australian National University, Canberra

Feb 2023 - Dec 2024

Master of Computer Science (Computing)

GPA: 6.5/7

Relevant Coursework: Computer Vision, Machine Learning, Logic, Relational Databases, Discrete Maths, Android, Java, Software Engineering

Guru Gobind Singh Indraprastha University, New Delhi

Jul 2018 - Jun 2022

B.Tech in Computer Science and Engineering

GPA: 9.68/10

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Computer Networks

Projects

- **Food Recipe Sharing App:** Built an android app which provides functionality such as login, authentication, storing and sharing food recipes. Implemented AVL tree for real-time storage of favorite recipes, with persistent storage in Firebase. Added real-time profile picture upload functionality and real time chat feature. Used Java, Firebase, JUnit4.
- **GStreamer Plugin:** Developed a custom GStreamer plugin to dynamically change the resolution of video playback on the screen, incorporating aspect ratio adjustments not available in existing plugins. Implemented without the use of any wrapper applications, utilizing in-built negotiation of capsfilter element capabilities. Used Rust, GStreamer, C.
- **Automated Image Captioning:** Implemented the "Show, Attend and Tell: Neural Image Caption Generation with Visual Attention" paper using a combination of CNN and LSTM. Used CNN for encoding and LSTM for decoding to generate captions from images, leveraging the MS-COCO dataset. Applied beam search to improve the accuracy and relevance of the generated captions. Used Python.

Awards and Certificates

- **ANU Chancellor's International Scholarship:** Holder (50% Tuition Fee Reduction) (2023-2024)
- **Academic Excellence Award:** First Rank in bachelors.
- Udacity Deep learning Nanodegree certified (2020).
- Microsoft Technology Associate (2019)