Shubham Sharma
Acton, ACT, Australia

Portfolio: officialshubham.github.io **| Github:** github.com/Officialshubham **|Linkedin:** www.linkedin.com/in/ai-shubham **| Email:** Shubham.Sharma@anu.edu.au **| Phone:** 0410127513

OBJECTIVE:
- Driven and aspiring software engineer with a passion for creating innovative solutions and a strong foundation in problem solving
- With solid academic foundations and experience in software engineering to this position, I am keen to apply to this role to grow my technical skills, gain hands-on experience and contribute to cutting edge projects while continuously expanding my knowledge in dynamic and collaborative environment

EDUCATION:

Master of Computing   Feb 2023 - Present
Australian National University, Canberra, Australia

Bachelor of Technology in Computer Science and Engineering   Aug 2018 - July 2022
Guru Gobind Singh Indraprastha University, Delhi, India
GPA 9.665/10

SKILLS:
Programming Languages: Java, Python, C|C++, SQL, Rust, HTML, CSS, Javascript
Softwares: Git, VSCode, Github, Heroku, Notion, WSL2, Docker, PowerBI, Confluence, Jira
Libraries & Frameworks: GStreamer, WebRTC, React, Flask, D3.js, Chart.js, Seaborn, Numpy and Pandas, AWS
OS: Linux and Windows.

EXPERIENCE:

Software Engineering Intern   Feb 2024 - Present
Xtream Compute, Canberra, Australia
- Enhanced cloud gaming platform by utilizing proprietary technology to deliver ultra-low latency solutions.
- Efficient packet transmission from server to client and reducing the frame and packet loss in the process.
- Enhanced the existing pipeline on server by my own plugin to provide the ability to change streaming parameters like bitrate, frame per second dynamically.
- Successfully containerised both client and server side code using docker and deployed on AWS.

Data Project Contract   Aug 2023 - Present
Australian National University, ACT, Australia
- Successfully automated data collection pipelines for the College of Health and Medicine department, significantly improving data acquisition efficiency and accuracy.
- Utilized Python, along with libraries such as Beautiful Soup, to develop scraping scripts and data processing tools, streamlining the data gathering process.
- Collaborated closely with cross-functional teams to identify data requirements and implement solutions to meet project objectives.
- Assisted in the creation of data-driven reports using PowerBI and visualizations to aid decision-making for the College of Health and Medicine.

Sabudh Foundation, Mohali, Punjab   July 2020 - Dec 2020
Data Science Intern
Supervisor: Dr. Sarabjot Singh Anand (Co-Founder, Tatras Data)
Project: Proactive Policing
- In collaboration with Punjab Traffic Police, India, developed an interactive dashboard using the D3.js framework to enable the police department to visualize incidents over different time intervals and extract actionable insights.
  Link: Proactive Policing
- Developed a solution to extract vehicle information near traffic signals, optimizing traffic light timing based on vehicle density to reduce waiting times for commuters and improve traffic flow.

PERSONAL PROJECTS:
- **Popularity Prediction in Social Media platforms like Twitter**
  The project aims to find the right set of mini-influencers on Twitter that can promote the product and gain maximum popularity within a short period, using RNN (LSTM) for topic classification and regression models for finding the popularity in numbers.
  - Data labeling is done using custom made data labeller built using Django and Django Rest framework in the backend to build a web server. The labeled data was stored in postgreSQL and then exported to csv files. The backend of the web app was deployed on heroku and the frontend was deployed on Netlify consuming the backend's REST api.
  - Tools: Python, Fastai, Django, postgreSQL, Git.
- **Cara (Responsive E-commerce Website)**
  - Designed and developed the "Cara" e-commerce website for clothing, featuring a responsive design optimized for large screens, medium screens, and small screens. Users can explore popular and featured products, making it accessible and user-friendly across various devices.
    Link: Cara
- **Personal Portfolio Website**
  - Conceptualized and built my own portfolio website to showcase my skills, projects, and achievements.
  - Designed with an emphasis on user experience, the website offers a visually appealing and easy-to-navigate platform for visitors to learn about my professional journey, view my work, and get in touch.
  - Implemented responsive design principles to ensure accessibility across different devices, creating a compelling online presence to highlight my software engineering capabilities and accomplishments.
    Link: Portfolio
- **Kisan Sarthi (One platform for all problems of farmers)**
  - Actively participated in a collaborative team of three members to conceive and develop the "Kisan Sarthi" website, a pioneering solution for the farming community.
  - The platform addressed critical agricultural challenges, including disease identification, crop recommendations, and macronutrient guidance.
  - The project was a part of the prestigious Technothon 1.0 organised by the Department of Computer Science & Engineering, Amity University, Mumbai and exemplified our dedication to leveraging technology for the betterment of agriculture.
  - Link: KisanSarthi

TECHNICAL CERTIFICATIONS:
Udacity:
- Deep Learning NanoDegree Program

Coursera:
- IBM Data Science Specialization
- Machine Learning with Python
- Data Visualization with Python
- Databases and SQL for Data Science
- Data Analysis with Python

EXTRACURRICULAR & VOLUNTEERING EXPERIENCE:
- **THRAC Executive Member, Toad Hall, ANU** (Feb 2023- June 2023)
  - Organised and managed various events like exam tea and gaming nights for students living in university accommodation (Toad Hall)
- **International Conference on Artificial Intelligence and Application** (February 2020)
  - Organised by Springer at Maharaja Surajmal Institute of Technology.
  - Volunteered to manage the organization of the conference and helped the student organising committee members.
- **Shalem Pentecostal Church of God (Regd)** (March 2021)
  - As a Community Contributor handled various issues of the community and helped people by guiding them for the solution.
  - The community aims to improve the lives of orphans, individuals with leprosy, slum-dwellers, individuals battling alcoholism, and abandoned individuals.
- **HackNagpur - Central's India's Largest Community Hackathon** (December 2020)
  - A hackathon hosted for creative people like designers, data experts, and developers.
  - Built a project in a new track named Open Innovation, for people who aren't able to talk and hear.
  - Designed a web app through which individuals can use sign language and gestures to communicate, which the app will translate to text on-screen.

ACHIEVEMENTS:
- ANU Chancellor's International Scholarship Holder (50% Tuition Fee Reduction) (2023-2024)
- Academic Excellence Award: First Rank in Computer Science and Engineering in University (2020).
- Microsoft Technology Associate (2019).

REFEREES
Natalie Chang
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