ARSH UPADHYAYA

Software Engineer | Developer

CONTACT

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SKILLS

Programming: Python, Java, C++, MySQL, GitHub

Software Development:
Junit testing, UML diagrams, design patterns, sequence diagrams and loggers

Cloud Computing: docker compose, docker swarm, Kubernetes on GCP

Website Development: HTML, CSS, JavaScript, React

Human Computer Interaction: user testing, expert evaluation, GUI

EDUCATION

B.E Software Engineering
University of Queensland,
Brisbane Australia
Sep 2020- June 2025

Year 12 (CBSE)
Heritage School,
Gurugram India
Mar 2006 – Mar 2020

PROFILE

As a final year engineering student specializing in software engineering, I bring a robust understanding of software development methodologies and expertise in integrated topics such as relational databases and cloud techniques. My extensive hands-on experience, gained through collaborative projects in both small and large teams over GitHub, has honed my skills in efficient team communication. Eager to leverage my knowledge and practical skills in a professional setting, I am well-equipped to contribute effectively to dynamic projects alongside like-minded individuals.

EXPERIENCE

Project 1

As a part of a software engineering studio, our class consisted of 50 members divided into 6 teams, and each team worked on a key aspect of a main game. My group was responsible for creating entertaining minigames.

Over the course of the project, I maintained our feature branch, and was responsible for resolving merge conflicts by communicating with other authors. I was also responsible for creating animations and asset collection.

Furthermore, I had a pivotal role in creating unit tests and detecting code smells, along with debugging and refactoring code to ensure design patterns were followed. I also overlooked UML and sequence diagram creation by other team members.

Link to project repository: https://github.com/UQcsse3200/2023-studio-2
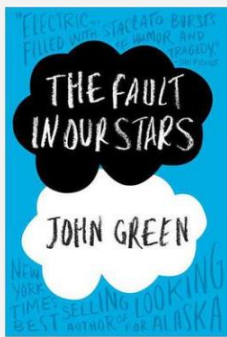
Project 2

As a part of a group project, me and my friends decided to create a live smoke detection application, that would detect if people were smoking in stadiums in real time. We accomplished this by creating a YOLO neural network and integrating it with a GUI.

I was solely responsible for the GUI creation, and started by creating a Figma prototype, that had successive iterations that involved user testing, and the final working GUI was a python-based application that was user friendly.

I was again responsible for maintaining the GitHub repository and was deeply involved in integrating YOLO network to reflect in GUI in real time. This involved learning about computer vision library and multithreading.

Link to project repository: https://github.com/mrlijing/DECO3801_GUI

FAVOURITE BOOKS

CERTIFICATIONS AND AWARDS

Grade 1 Guitar Exam
Trinity college London
Grade: Merit

Machine Learning Course
Coursera – Andrew Ng
Completion: 03/04/2023

Highest Performing Stall
Yujan (School Carnival)
Most money raised for charity
amongst 20 stalls

ABOUT MYSELF

My formative years in Gurgaon, India, were marked by a deep-rooted fascination for Science and Mathematics. I studied at the Heritage Xperiential Learning School, an institution that fostered a hands-on learning approach, which significantly enriched my understanding and passion for scientific subjects. A pivotal moment in my high school education was the opportunity to participate in the Sakura Science Exchange Program in Tokyo, Japan, facilitated by my school. This involved a rigorous screening where a cohort of 8 students were hand-picked from the entire 12th Grade. This immersive experience allowed me to engage in a scientific exchange with students from many countries, and the highlight of the trip was an unforgettable opportunity to conduct an experiment under the guidance of Nobel Laureate Professor Hideki Shirakawa. This unique encounter left an indelible mark on my academic journey, reinforcing my commitment to the pursuit of knowledge in the realm of science and technology.

HOBBIES

I am a multifaceted individual with a passion for diverse interests. Outside of my studies, I find joy in the strategic intricacies of chess, which allow me to express my competitive spirit. I particularly enjoy playing Blitz chess. Playing Cricket and Golf have also been long running passions of mine and I take every opportunity to get out on the playing field or the golf course. Additionally, I am drawn to intellectual challenges, often immersing myself in logic puzzles and indulging in detective shows to satisfy my curiosity. True crime fascinates me as it allows me to explore the complexities of human behavior, while nature documentaries provide a great escape into the wonders of the natural world.