

UJJWAL PURI

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EDUCATION

University of Southern California Master of Science in Computer Science	Expected May 2027 Los Angeles, CA
SRM Institute of Science and Technology Bachelor of Technology in Computer Science and Engineering, GPA: 9.28/10	Jul 2019 - May 2023 Chennai, India

• Relevant coursework: Analysis of Algorithms, Database Systems

• Relevant coursework: Data Structures and Algorithms, Database Management, Operating Systems, Software Development, Artificial Intelligence, Digital Image Processing, Natural Language Processing

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, TypeScript, SQL, HTML, CSS
- **Libraries/Frameworks:** NodeJS, ReactJS, ExpressJS, Flask, FastAPI, TensorFlow, OpenCV, Scikit-learn
- **Cloud & DevOps:** AWS, GCP, Git, GitHub, RESTful APIs
- **Databases:** MySQL, PostgreSQL, MongoDB

PROFESSIONAL EXPERIENCE

Decision Analytics Associate <i>ZS Associates</i>	Jun 2023 - May 2025 Pune, India
• Built a full-stack web application for Medical Affairs performance tracking using ExpressJS and ReactJS , replacing static reports and enabling real-time, enterprise-scale performance dashboards to enable data-driven decisions	
• Partnered with cross-functional teams to optimize backend SQL queries , achieving 40% faster report generations	
• Automated reporting and validation pipelines with Python and Microsoft Excel , reducing data processing time for 10+ field teams by 5% and eliminating ~20 hours/month of manual work	
• Developed key frontend components and integrated RESTful APIs to support multi-user data visualization features	
• Partnered with 30+ stakeholders to define key metrics and develop Power BI dashboards for ongoing KPI monitoring	
• Onboarded and trained 20 juniors, enhancing their proficiency in analytics tools and aligning with project workflows	
Research Intern <i>Samsung R&D Institute India</i>	Jan 2022 - Dec 2022 Chennai, India
• Fine-tuned deep learning models in Python for reflection removal in images, improving model performances using metrics such as PSNR and SSIM	
• Compiled a comprehensive RAW image database, ensuring high-quality data for model training and validation	
• Evaluated 10+ academic papers for existing methodologies to identify optimal baseline for reflection removal	
Tech Associate Trainee <i>Optshine Digitech Solutions</i>	Jan 2021 - Dec 2021 Chennai, India
• Deployed the company's first production website using ReactJS hosted on AWS , driving 500+ visits within the first quarter	
• Collaborated with 5+ stakeholders and designed wireframes and prototypes for mobile applications in Figma and Adobe XD , ensuring user-centric design while guiding development of the startup's first product interface	

PROJECTS

Gradescope Calendar Sync <i>Python, FastAPI, Google Cloud Engine, BeautifulSoup</i>	Sep 2025
• Created and deployed a secure, automated FastAPI web app that integrates Gradescope deadlines to Google Calendar with Google OAuth 2.0 for secure authentication and cron automation	
• Integrated cloud-based authentication and REST endpoints , following clean architecture and CI/CD best practices.	
Pre-publication Book Popularity Prediction https://doi.org/10.1063/5.0217437 <i>Python, NLP, Machine Learning</i>	Apr 2023
• Built a machine learning model to predict the popularity of books by leveraging textual features and metadata such as genre, topic, and author information from 100K+ manuscripts	
• Applied statistical methods and ML algorithms to forecast popularity, demonstrating practical predictive modeling and data analysis ; published findings in the AIP Conference Proceedings Journal	

LEADERSHIP AND INVOLVEMENT

Organizer - Aaruush SRM IST	Feb 2022 - Mar 2023
• Managed a team of 150+ students , coordinated with cross-functional teams and external stakeholders to organize large-scale events, demonstrating strong leadership and communication skills	
Creatives Lead - ACM-Women SRM Chapter	Jul 2021 - Jun 2022
• Scaled the community from 10 to 100 members in 2 months by building an online presence and leading UI/UX training sessions to improve design skills using industry-standard tools	