

SOHAM SACHIN BHURE

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EDUCATION

University of Southern California , Los Angeles, CA	Aug 2022-May 2024
Master of Science, Computer Science	GPA: 4.0/4.0
Vishwakarma Institute of Technology , Pune, India	Aug 2018-July 2022
Bachelor of Technology, Computer Engineering	GPA: 9.44/10.00

SKILLS

Languages:	Python, Java, C, C++, JavaScript, HTML, CSS, SQL
Tools:	Angular, React.JS, Node.JS, Spring Boot, Flask, Android Studio, Git, TensorFlow, MySQL, UNIX, Google Cloud Platform, AWS, Firebase, MongoDB, Docker
Concepts:	Data Structures, Algorithms, Object Oriented Programming, Operating Systems, Database Systems, Computer Networks, Cloud Computing, Web Technologies, Agile
Certifications:	Coursera: Deep Learning and Natural Language Processing (6 certifications), Azure Fundamentals: AZ-900, PL-900

EXPERIENCE

University of Southern California Teaching Assistant- Database Systems & Information Retrieval:	Aug 2023-Present
<ul style="list-style-type: none">Grading assignments, designing papers for 700+ students, while receiving 100% tuition remission.	
Data Axle Data Science Internship:	May 2023-Aug 2023
<ul style="list-style-type: none">Engineered an autonomous data extraction bot capable of gathering information from social media and state SOS sites; led to an increase of 150K business records verified per week.Harnessed potential of LLMs, OpenAI, SERP, and Langchain to drive informed decision-making.Achieved remarkable efficiency gains, resulting in projected savings of 200K USD/year.Built a responsive ReactJS frontend app enabling users to conduct market research efficiently.	
Union Bank of Switzerland (UBS) Technology Internship:	Jan 2022-June 2022
<ul style="list-style-type: none">Optimized Network Services Automation Bot by applying multithreading and design patterns.Scripted Network Orchestration Platform APIs using Python and FastAPI framework.Proactively documented user guides for Azure DevCloud Desktop; followed by over 100 employees.Devised a tickets statistics summarizer for service tickets; saved 50 person hours/year.	
Union Bank of Switzerland (UBS) Summer Internship:	June 2021-Aug 2021
<ul style="list-style-type: none">Automated redundant tasks using Scrapy and Selenium; resulting in 50% faster execution.Configured and deployed new catalogue items in ServiceNow to facilitate ticket creation.	

LEADERSHIP AND INVOLVEMENT

The Robotics Forum, VIT Student Developer and Administrator:	June 2019-Aug 2021
<ul style="list-style-type: none">Imparted training on Data Structures, OOPS and Machine Learning to over 100 students.Collaborated and managed club's Finances, Databases, Logistics, and Events for various technical workshops, especially for IIT Delhi's ROBOCON 2020 competition.	

PROJECTS

Event Booking and Management App
<ul style="list-style-type: none">Designed a responsive full-stack application using Angular, NodeJS, MongoDB enabling users to search and book events.Implemented key functionalities such as event searching, venue display, and comprehensive booking management.Successfully deployed on Google Cloud Platform for reliable and scalable performance: https://rb.gy/e7mb6Developed an Android app catering to mobile users: https://rb.gy/n6ood
Stock Trading and Portfolio Management App
<ul style="list-style-type: none">Developed a responsive full-stack application utilizing ReactJS, Spring Boot and MongoDB for portfolio management.Introduced key features such as stock search, watchlist manager, buying and selling capabilities, and portfolio tracking.Integrated Highcharts API to create dynamic and interactive stock charts.
Advanced Game Engine Optimization: Physics Simulation and Frustum Culling in C++
<ul style="list-style-type: none">Implemented frustum culling with AABB, enhancing framerate in 3D rendering scenarios with 100+ characters.Designed a multi-threaded Physics-Component system, integrating collision, gravity for improved 3D gameplay realism.Video Links: Physics Simulation: https://rb.gy/ta5lp, Frustum Culling: https://rb.gy/tyruw
Multiprogramming Operating System using C++
<ul style="list-style-type: none">Simulated an OS by programming operations including data read/write, moving data in and out of registers, etc.Supports execution of multiple tasks, input spooling, output spooling, paging, and error handling.

AWARDS AND PUBLICATIONS

- Microsoft's Code for the Future Hackathon:** Finalist- Ranked among the **Top 5** from all over India
- Michelin Mobility Innovative Challenge:** Finalist- Finished as a **2nd Runner Up** from all over India
- Drug Generation using Generative Models:** IRJET [e-ISSN: 2395-0056, Volume: 08 Issue: 10, Oct 2021]
- Adaptive Traffic Management using Traffic API:** IJARIT [ISSN: 2454-132X, Volume 7, Issue 4 - V7I4-1365, July 2021]