






# Premnaath Varadharajan

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## EDUCATION

- University of Southern California, Los Angeles, CA, USA**  Jun. 2025 – Dec. 2026  
*Master of Science in Computer Science*  
*Coursework: Analysis of Algorithms, Database Systems, Machine Learning, Artificial Intelligence*
- Anna University - College of Engineering, Guindy, India**  Aug. 2019 – Apr. 2023  
*Bachelor of Technology in Information Technology* 8.97/10.0 CGPA  
*Coursework: Engineering Mathematics, Advanced Data Structures, Operating Systems, Computer Networks*

## EXPERIENCE

- Oracle**  Jan. 2023 – Mar. 2025  
*Associate Software Developer* *Hyderabad, India - Onsite*
  - Worked on Aconex and ConjectMI products in the Construction and Engineering GBU
  - Implemented a complete integration of Oracle's proprietary DataGrid component with Microsoft Excel
  - Utilized thread pools in Helidon framework to handle concurrent tasks, achieving a 30% reduction in loading times
  - Actively participated in customer meetings to brainstorm use cases and develop features tailored to their needs*Project Intern*
  - Handled DevOps tasks, including containerizing applications and creating deployment pipelines
  - Developed a panning canvas from scratch to enable navigation across screens using mouse drag
- Coral Academy**  (Part-Time) Jun. 2024 – Feb. 2025  
*Lead Backend Engineer* *New York, NY - Remote*
  - Led a team of 4 in backend development for an early-stage edtech start-up in the K-12 segment
  - Integrated Stripe for payments, Zoom for calls and optimized data handling using Supabase, Deno, and PostgreSQL
  - Designed scalable database schemas and architected the application based on PRD requirements
- Assurant**  May 2022 – Jul. 2022  
*Data Analyst Intern* *Atlanta, GA - Remote*
  - Developed quality control PowerBI dashboards and conducted code reviews
  - Used direct query approach to minimise time elapsed to extract and transform data from warehouse

## PROJECTS

- PDF Wiser**  | *Python, Streamlit, LangChain* Mar. 2024 – Apr. 2024
  - Developed a Streamlit web app that retrieves answers from a provided PDF using natural language processing
  - Implemented Retrieval Augmented Generation that uses advanced embedding models and re-ranking knowledge graph
- Multitask Offloader**  | *Python, xmlrpc, cProfile, pstats, Edge Computing* Feb. 2023 – Apr. 2023
  - Developed a decision-making algorithm to offload computationally intensive tasks from mobile devices to edge servers
  - Achieved up to a 40% reduction in computation time for large inputs, enhancing overall efficiency
- Sort Visualizer**  | *Python, TKinter, Sorting Algorithms* Feb. 2022 – Mar. 2022
  - Designed a cross-platform sort visualization app with customizable animation speed, dataset size, and range
- COVID Vaccinator Bot**  | *Python, Flask, Co-WIN Public APIs, PyTelegramBotAPI* Apr. 2021 – May 2021
  - Developed a Telegram bot to expedite vaccine slot bookings by bypassing OTP delays, helping over 50 people secure slots

## TECHNICAL SKILLS

Languages	C++, Java, Python, TypeScript, SQL, Lua, Z Shell
Developer Tools	Docker, Kubernetes, CI/CD Pipelines, PowerBI
Libraries & Frameworks	STL, Flask, Django, Supabase, ReactJS, Machine Learning

## NOTABLE HIGHLIGHTS

- Received the AXCellence Award for the Extra Mile category from CEGBU's Vice President for FY24 Q3 at Oracle
- Won a \$150 cash prize as a runner-up in Oracle's IGIU FY24 Hackathon
- Participated in Apple's WWDC Swift Student Challenge 2022, earning a free entry ticket worth \$1000 to Apple Park, CA
- Awarded Certificate of Merit by CBSE for securing a perfect 10 CGPA in AISSE session 2015-2016
- Made contributions to [TLDR](#) pages, an open source community driven command line tool
- Online Profiles: [LeetCode](#), [CodeChef](#), [CodeForces](#), [GeeksforGeeks](#), [Hackerrank](#), [Stack Overflow](#)