






# Premnaath Varadharajan

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## EDUCATION

<b>University of Southern California, Los Angeles, CA, USA</b> 	Jun. 2025 – Dec. 2026
<i>Master of Science in Computer Science</i>	3.7/4.0 CGPA
<i>Coursework: Analysis of Algorithms, Artificial Intelligence, Information Retrieval</i>	
<b>Anna University - College of Engineering, Guindy, India</b> 	Aug. 2019 – Apr. 2023
<i>Bachelor of Technology in Information Technology</i>	8.97/10.0 CGPA
<i>Coursework: Engineering Mathematics, Advanced Data Structures, Operating Systems, Computer Networks</i>	

## EXPERIENCE

<b>Oracle</b> 	Jan. 2023 – Mar. 2025
<i>Associate Software Developer</i>	<i>Hyderabad, India - Onsite</i>
<ul style="list-style-type: none"><li>• Worked on Aconex and ConjectMI products in the Construction and Engineering GBU</li><li>• Implemented a complete integration of Oracle's proprietary DataGrid component with Microsoft Excel</li><li>• Utilized thread pools in Helidon framework to handle concurrent tasks, achieving a 30% reduction in loading times</li><li>• Actively participated in customer meetings to brainstorm use cases and develop features tailored to their needs</li></ul>	
<i>Project Intern</i>	
<ul style="list-style-type: none"><li>• Handled DevOps tasks, including containerizing applications and creating deployment pipelines</li><li>• Developed a panning canvas from scratch to enable navigation across screens using mouse drag</li></ul>	
<b>Coral Academy</b> 	(Part-Time) Jun. 2024 – Feb. 2025
<i>Lead Backend Engineer</i>	<i>New York, NY - Remote</i>
<ul style="list-style-type: none"><li>• Led a team of 4 in backend development for an early-stage edtech start-up in the K-12 segment</li><li>• Integrated Stripe for payments, Zoom for calls and optimized data handling using Supabase, Deno, and PostgreSQL</li><li>• Designed scalable database schemas and architected the application based on PRD requirements</li></ul>	
<b>Assurant</b> 	May 2022 – Jul. 2022
<i>Data Analyst Intern</i>	<i>Atlanta, GA - Remote</i>
<ul style="list-style-type: none"><li>• Developed quality control PowerBI dashboards and conducted code reviews</li><li>• Used direct query approach to minimise time elapsed to extract and transform data from warehouse</li></ul>	

## PROJECTS

<b>PDF Wiser</b>    <i>Python, Streamlit, LangChain</i>	Mar. 2024 – Apr. 2024
<ul style="list-style-type: none"><li>• Developed a Streamlit web app that retrieves answers from a provided PDF using natural language processing</li><li>• Implemented Retrieval Augmented Generation that uses advanced embedding models and re-ranking knowledge graph</li></ul>	
<b>Multitask Offloader</b>    <i>Python, xmlrpc, cProfile, pstats, Edge Computing</i>	Feb. 2023 – Apr. 2023
<ul style="list-style-type: none"><li>• Developed a decision-making algorithm to offload computationally intensive tasks from mobile devices to edge servers</li><li>• Achieved up to a 40% reduction in computation time for large inputs, enhancing overall efficiency</li></ul>	
<b>Sort Visualizer</b>    <i>Python, TKinter, Sorting Algorithms</i>	Feb. 2022 – Mar. 2022
<ul style="list-style-type: none"><li>• Designed a cross-platform sort visualization app with customizable animation speed, dataset size, and range</li></ul>	
<b>COVID Vaccinator Bot</b>    <i>Python, Flask, Co-WIN Public APIs, PyTelegramBotAPI</i>	Apr. 2021 – May 2021
<ul style="list-style-type: none"><li>• Developed a Telegram bot to expedite vaccine slot bookings by bypassing OTP delays, helping over 50 people secure slots</li></ul>	

## TECHNICAL SKILLS

<b>Languages</b>	C++, Java, Python, TypeScript, SQL, Lua, Z Shell
<b>Developer Tools</b>	Docker, Kubernetes, CI/CD Pipelines, PowerBI
<b>Libraries &amp; Frameworks</b>	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](#)