

# Vikram Thirumaran

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## EDUCATION

University of Oregon College of Arts and Sciences – Eugene, OR

2023 - 2027

B.S. Computer Science, B.S. Data Science. Minor in Math, Interdisciplinary Cognitive Science

C/M GPA: 3.49

## TECHNICAL SKILLS

Python (NumPy, Pandas, Matplotlib), Java, C, C++, C#, SQL, R, Statistical Modeling, Machine Learning, Excel, Data Visualization (Matlab, Seaborn, etc.), React/Next.js, Supabase, Node.js, HTML/CSS, Git, GitHub, Slurm, Jira (JQL), Unix/Linux (Shell Scripting), Server Installation, PC Building, BambuLab, Canva, Microsoft Office Suite, Project Management, Technical Documentation

## PROJECTS

MCC Scheduler | Software Engineering Term Project | Eugene OR |

January 2026 - April 2026

- Addressed fragmented event data and scheduling friction for 30+ student organizations under the UO Multicultural Center (MCC).
- Led a 4-person team to create a "single source of truth" platform for three user classes: Students, Officers, and MCC Administrators.
- Designed a modular Node.js/Express backend and React frontend; engineered a Sync Engine using node-ical to automate real-time Outlook ICS feed fetching into a Supabase (PostgreSQL) store. Setup a custom domain and email to keep users updated.
- Achieved sub-200ms response times for a user base of 500+ students and 30+ administrators, while establishing a framework for continuous performance monitoring and iterative updates to ensure long-term scalability and reliability.

EchoAI | QuackHacks Hackathon Data Science Track - 1st Place | Eugene OR |

November 2025

- Engineered a Chrome extension in 24 hours that utilizes NLP and the GDELT API to analyze articles for political biases.
- Developed a multi-vector algorithm and integrated the VADER lexicon to quantify emotional/ideological leaning in real-time.
- Optimized an asynchronous data pipeline using the same NLP token cache and the Gemini API to deliver instant AI-generated summaries and diverse "opposing viewpoint" content.

## EMPLOYMENT/INTERNSHIP EXPERIENCE

UO Data Services | Quantitative Peer Methods Consultant |

April 2026 - Present

- Provide specialized consultation on statistical methods (descriptive, modeling, visualization) for completing theses and dissertations.
- Develop instructional and reference materials for research methodologies using R, Python, and SQL.
- Support data management workflows and facilitate workshops on statistical software (SPSS, Jamovi, Excel).

UO MultiCultural Center | External Lead |

February 2024 - June 2026

- Liaised between the MCC and unions, utilizing digital tools and collaborative strategies to increase membership.
- Spearheaded large-scale programming and summits to enhance student engagement and institutional support.
- Managed center operations, adapting service models to meet the evolving needs of a diverse student body.
- Ensured, supported and advocated for MCC-affiliated student unions to collaborate with each other.

UO Research Advanced Computing Services | Student Assistant Systems Administrator |

September 2024 - July 2025

- Managed HPC cluster health through hardware deployment, software provisioning, and routine system maintenance for the Talapas (T2) heterogeneous environment.
- Streamlined research workflows by documenting complex system processes and developing API - driven scripts to automate administrative tasks and module testing.
- Optimized system performance and load management by evaluating new HPC technologies & benchmarking system architectures.
- Led technical instruction for the "Introduction to HPC" workshop series, providing expert consultation to researchers and faculty across diverse research disciplines.

Service Roles | Lifetime Activities, Ike's Sandwiches, IHOP | Coach/Crew/Host | San Jose, CA |

July 2021 - August 2023

## LEADERSHIP & VOLUNTEER EXPERIENCE

University of Oregon South Asian Cultural Alliance | Public Relations Chair | Eugene OR |

March 2024 - June 2025

- Co-founded the SSWANA Center, establishing the framework for a new campus department and a permanent cultural center.
- Scaled social media presence to 1,000+ followers, utilizing data analytics to optimize engagement and growth.

Pinnacle Hoops | Co-Founder, Coach/Volunteer | San Jose, CA |

August 2020 - August 2023

- Founded a 501(c)(3) nonprofit org raising and donating \$30,000 by coaching basketball, in small sessions and larger summer camps.

## HONORS & ACTIVITIES

University of Oregon South Asian Cultural Alliance | Member |

March 2023 - Present

University of Oregon Alpha Kappa Psi Fraternity | Member |

September 2024 - September 2025

University of Oregon Artificial Intelligence Student Association | Tech Team |

March 2026 - Present