Arnav Thirunagari

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Skills

Languages: Python3, Swift, C#, Javascript, Java
Frameworks/Tools: Unity, Node.js, React.js, Express.js, Firebase
Machine Learning Tools: Pytorch, LangChain, Pandas, spaCy

Education

University of California, Santa Barbara (UCSB)   2020-2024
Mathematics at College of Creative Studies
Relevant Coursework: Math104B - Numerical Analysis, PSTAT160AB - Stochastic Calculus, MathCS121 - Probability, ECE 194MP - Introduction to Game Development, Advanced Game Development

Professional Experience

Developer at ArmourAI   Oct 2025 -
- Building a multi-agentic system using LangChain that generates and modifies custom sales dashboards for business owners.
- Using AI agents for automatic verification of workflow task completion.

Developer at DosthAI   Oct 2024 - Jan 2025
- Built a tool that allows speech pathologists and therapists to generate short AI videos for neurodivergent children.
- Used ReactJS frontend, node.js for backend, and stability.ai+OpenAI API for backend.

Data Analytics Intern at Lavu Inc.   Jul 2021 - Sep 2021
- Tasked with creating a Python model for inventory management for small restaurants.
- Used ARIMA model to predict menu item sales for restaurants.
- Utilized statistical and stochastic methods to model variance of inventory item usage on a weekly basis, so that restaurants do not waste their ingredients excessively.
- Presented findings to the development leads and executives.

Projects

NER - Named Entity Recognition on Real Time Data   Aug 2023 - Oct 2024
- Employed Pytorch LSTMs to construct a Seq2Seq NER deep learning model for word classification in e-commerce titles, achieving an F1 score of 0.86.

Worlds Apart   Oct 2022 - Jan 2023
- Designed and developed a multi-player puzzle-platformer game in six weeks.
- Used Github and Trello as developer tools.
- Demoed to a group of excited ten-year-olds.

Let's Connect. See my portfolio at arnav.pro and feel free to contact me at tharnav999@gmail.com.