Hari Sethuraman

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EDUCATION

University of Washington *(Seattle, WA)* **Graduation:** Spring 2025

B.S. Computer Science *(Dean's List), GPA: 3.89*

Relevant Coursework: Deep Learning, Data Structures & Parallelism, Probability & Statistics, Software Design & Implementation, Linear Algebra

TECHNICAL QUALIFICATIONS

Languages (Proficient): Java, Python, C
Languages (Familiar): JavaScript, TypeScript, HTML, CSS, SQL
Frameworks: React, Spark,PyTorch,NumPy, TensorFlow
Tools: Bash, LaTeX, Jupyter, Git

PROJECTS

AI model – JazzGPT April 2023 – June 2023

• Developed and trained a model in PyTorch that generates jazz solos given a sequence of chord changes. Lead a team of two others, who helped evaluate the model and provided feedback regarding architectural design. We also wrote a paper on the model. *(Technologies: PyTorch, NumPy, Jupyter)*

Java Application – Campus Maps January 2023 – March 2023

- Created a web app that computes and shows the fastest path between two locations on the University of Washington campus. Involved extensive usage of unit testing, documentation, and writing large amounts of clean code. (*Technologies: React, Java, HTML/CSS, JavaScript, Spark, Documentation, JUnit Testing)*

Research Paper – Probabilities of Risk Feb 2022

• Wrote a research paper calculating the probabilities of the board game 'Risk' in spring 2022. Involved Dynamic Programming to calculate large computations, and matrix multiplication using NumPy *(Technologies: Python, NumPy)*

Book – Introduction to Competitive Coding Jan-July 2021

• Authored and illustrated a 140-page book on competitive programming. Covers algorithm design paradigms, several data structures, Complexity, and solutions to ten problems from past competitions in C. *(Technologies: C, Algorithm design)*

ACTIVITES & LEADERSHIP

Project Moonshot, Computer Science Tutor, Head of Outreach *(Seattle, WA)* April - October 2021

- As part of the non-profit Project Moonshot, I prepared an eight-week course on the basics of C-programming and taught it to university students in Nepal. Course topics include basic data structures, recursion, and binary formatting. As Head of Outreach, I reached out to several schools around the US in an effort to incorporate our project.

Other activities: Wrote coding problems for the coding competition DIAByte held by my high school, wrote a research paper on Bayesian Networks.

HONORS & AWARDS

Google Code-In Challenge for TensorFlow (2019)