Atharva Naik

github.com/atharvanaik10 | linkedin.com/in/atharvanaik10

+1 (217) 607 4210

annaik2@illinois.edu | atharvanaik10@gmail.com

Education

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, ILLINOIS, USA, 2020 - *2024*

Bachelor of Science, Mathematics & Computer Science

GPA: 3.93 | James Scholar Honors Program, Dean's List, LAS Global Leaders Program, Theta Tau Professional Engineering Fraternity, Reflections | Projections Technology Conference, Quant

SINGAPORE AMERICAN SCHOOL - HIGH SCHOOL, SINGAPORE, 2016 - 2020

High School Diploma

GPA: 4.14 | National Honor Society, Computer Science Honor Society, Science National Honor Society, French Honor Society, Thespian Honor Society, AP Scholar with Honor, Exemplary Service Recognition, Tutor for CS, French, and Physics

Work Experience

CLASSTRANSCRIBE

Machine Learning Research Assistant — *September* 2022 - *current*

- Researching novel scene detection and content extraction methods to accurately transcribe, index, and annotate lecture videos through large scale natural language processing and computer vision frameworks

CS 128 AT UNIVERSITY OF ILLINOIS

Course Assistant — August 2021 - May 2022

- Led a lab of more than 20 students to provide application-based understanding of C++ fundamentals
- Provided weekly office hours and asynchronous forum assistance to over 1500 students

PANASONIC NORTH AMERICA

Software Engineer Intern — June 2021 - August 2021

- Upgraded and deployed a feature page of a business facing asset management software for smart factory applications using React, Redux and Jest with Agile Development (leveraging Bitbucket, Jenkins and Sonar) as lead intern
- Revamped core management information systems by documenting high level React templates and APIs

Projects

- *Dagger* - a repository dependency graph generator in C++ with GraphViz and Dirent
- *FCAX* - a pipeline in C++ using OpenCV and Cinder to automatically stabilize and color correct videos
- *ARVolumes* - a Swift (iOS) app to model the surfaces of revolution of various equations in augmented reality using ARKit
- *VC4* - a fully functional game of connect-4 in Java that can be played by voice commands using CMUSphinx NLP
- *CoinSAC* - an automated crypto trading bot using Actor Critic Deep Reinforcement Learning in PyTorch
- *Finalist, MIT Policy Hackathon 2022* - data analysis and predictions for the housing crisis in Massachusetts

Leadership

REFLECTIONS | PROJECTIONS *(DEVELOPMENT AND SYSTEMS CHAIR 2022, DIRECTOR 2023), 2022 - CURRENT*

- Directing a team of over 40 students in diverse operational teams to organize the largest student run technology conference in the midwest
- Led a team of 8 students using agile development to create websites and backend services

THETA TAU PROFESSIONAL ENGINEERING FRATERNITY *(TECHNOLOGY CHAIR), 2022 - CURRENT*

- Revamping the current website in React-Native with active database management in MongoDB and synchronous backend services for over 80 members
- Creating data visualizations in Python for better demographic understanding of incoming cohort classes

GLOBAL LEADERS PROGRAM *(COHORT LEADER), 2020 - CURRENT*

- Leading a team of health professionals and social workers within the Champaign-Urbana Public Health District to increase awareness for the community around mental health resources
- Used Human-Centered Design principles to conduct research and engineer solutions for mental health alleviation

Skills and Relevant Coursework

- Java, C++ (w/ OpenCV, GraphViz), Python (w/ Numpy, Pandas, Matplotlib, Scipy, Pytorch), HTML, CSS, React, and Swift
- Github, Jira, Jupyter/Google Colab, SQLite databases, JetBrains IDEs, and VSCode
- Adobe CC (Photoshop, Illustrator, Lightroom, After Effects), Final Cut Pro, Microsoft Office, and Google Workspace
- Fluent in verbal and written English, French (ACTFL Advanced), Hindi, and Marathi
- Artificial Intelligence, Applied Machine Learning, Systems Programming, Algorithms and Models of Computation, Data Structures, Computer Architecture, Applied Linear Algebra, Numerical Methods, Differential Equations, and Real Analysis