Pranav Avva

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EDUCATION

Princeton University, Princeton, NJ

Aug 2020 - May 2024

B.S.E. in Computer Science and Certificate in Statistics & Machine Learning

CGPA: 3.12/4.00

Relevant Coursework: Research Projects in Data Science, Algorithms & Data Structures, Programming Systems,

Computational Biology, Integrated Science, Discrete Math, Math for Machine Learning, Multivariable Calculus, Linear Algebra

TECHNICAL EXPERIENCE

Machine Learning Researcher, Andlinger Center for Energy and Environment, Princeton, NJ

Jun - Aug 2022

- Study causes of and predict magnetic core loss using ML/deep learning
- Implement a Seg2Seg LSTM neural network architecture with test accuracy of >99%
- Submit research paper to ICML 2023 (in progress)
- Received offer to continue research during academic year

Project Manager/Lead Software Engineer, BoreDM, Phoenix, AZ (remote)

May 2022 - Present

- Lead team of eight software engineers in developing SaaS solution for geotechnical boring data storage/submission
- Steer development progress for upcoming feature releases/bug fixes
- Develop website from Figma mockup to production-ready state in 2 months
- Collaborate with top national geotech firms and local municipalities to beta-test application

Undergraduate Teaching Assistant, Princeton University Department of CS, Princeton, NJ

Jan 2022 - Present

- Serve as a UTA for students in COS 126, COS 217, COS 226
- Assist students in debugging assignment submission code
- Clarify students' understanding of data structure and algorithm concepts

Chief Technology Officer, The Daily Princetonian, Princeton, NJ

Aug 2021 - Present

- Lead team of Software Engineers in executing digital mission of the 'Prince'
- Serve as primary point of contact for all web projects
- Design, implement, and maintain full-stack web applications serving as primary revenue generators
- Collaborate with Business and Editorial teams (400+ members) in optimizing digital publication of 'Prince' content
- Served previously as Software Engineer from August 2020 August 2021

Software Engineer Intern, UNICEF, New York, NY (remote)

Jun - Jul 2021

- Performed web traffic analysis of UNICEF Internet of Good Things (IoGT) sites across the globe
- Created data visualization dashboards using Google Analytics and Data Studio
- Redesigned IoGT public-facing information site
- Documented IoGT v2 framework in open-source public repository

PROJECTS

Guess the Elo Jan 2022 - May 2022

- Machine learning research project submitted as final assignment for Princeton course SML 310 Research Projects in Data Science
- Prepared and tested multiple machine learning models and neural networks
- Predicts chess player rating given move list of a previously played chess game (accurate to 159 rating points of RMSE error)
- Prepared a 14-page final report, 5-minute final presentation, and answered live follow-up questions; received 'A' grade

Campus (https://prince.buzz)

Feb 2021 - Present

- Progressive Web App displaying Princeton dining hall menus, eating club events, restaurant discounts, sports schedules
- Lead development and maintenance since Feb 2021, contributed to over 70% of codebase
- Utilize knowledge of web technologies and data structure patterns to create a quality app
- Python, TypeScript, Flask, Web scraping, React, Redux, Google Firebase, Amazon AWS, Heorku

SKILLS

Certifications: Python for Data Science and ML, Responsive Web Design, Data Structures and Algorithms

Languages: French (3 years), Sanskrit (2 years), Hindi (1 year), Urdu (1 year) **Programming**: Python, TypeScript/JavaScript, Golang, HTML/CSS, C, ARMv8, Rust