Pramey Kabra

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EDUCATION

Purdue University — West Lafayette, IN
Bachelor of Science in *Computer Science* and *Data Science*, *Minor in Economics* — *Aug. 2020 – **May 2024***
Concentrations: *Machine Learning, Database Systems, Statistics* — **GPA:** *3.52*

PROFESSIONAL EXPERIENCE

Software Engineering Intern — May 2023 – Aug 2023
Zylo - Infrastructure Team — *Indianapolis, IN*
- Leveraged AWS EventBridge and Lambda functions to update core user tables with run statuses of Batch jobs
- Addressed critical security vulnerabilities (2 P1 and 3 P2) identified during annual penetration testing
- Developed user archival and un-archival features using Node.js with unit test suites in Mocha

Software Engineering Intern — May 2022 – Aug 2022
Advisor360 - Trading Team — *Boston, MA*
- Upgraded SSO service for 13 third-party applications to SAML2, enhancing authentication process
- Developed data-access layers and proxy services in .NET framework for efficient data retrieval
- Implemented JUnit tests for monolithic controller and resolved SonarQube linting bugs

ACADEMIC EXPERIENCE

NSF Undergraduate Researcher — **Aug 2023 – Present**
National Science Foundation, Purdue University - Rosen Center for Advanced Computing — *West Lafayette, IN*
- Enhancing performance of spatial intersection operations on NOAA's GeoJSON dataset with over 9 million records and spatial flood maps for 400 dams, using Parquet optimization techniques

Head Teaching Assistant — **Aug 2022 – Present**
Purdue University - The Data Mine — *West Lafayette, IN*
- Developed weekly Python, R, and SQL projects for 1300 students in Purdue's data science learning communities
- Led a team of 40 undergraduate TAs in grading student submissions and providing office hour support
- Created and maintained training materials and academic records to facilitate efficient onboarding

Executive Board - Webmaster — **Dec 2022 – Present**
Purdue Science Student Council — *West Lafayette, IN*
- Managed student organization's website and worked with the student outreach committee to host events

Vice President | *American Statistical Association - Purdue* — **Aug 2022 – Present**
Data Science Researcher | *Purdue University - The Data Mine, PlaneEnglish* — Aug 2021 – May 2022
Undergraduate Research Assistant | *Purdue University - EAPS Department* — Aug 2020 – May 2021

PROJECTS

Bracket-Gen | *Python, Node.js, React, PostgreSQL, Docker* — **May 2023 – Present**
- Worked on a full-stack project to predict results for march madness from 30+ years of historical data
- Created a random forest classifier with data and 12 web-scraped factors to make 72% accurate predictions

AllPurdue | *Node.js, MongoDB, Express.js* | GitHub Repository — Jan 2023 – May 2023
- Implemented API for MVC based application to allow users to post and update ratings, reviews, and blogs
- Created authentication service using JWT and GoogleStrategy to allow users to sign-up and login
- Modelled user, place, blogs, and reviews for quick retrievals with search calls to database

TECHNICAL SKILLS AND COURSEWORK

Languages: JavaScript/Typsecript, Python, C/C++, SQL/pgSQL, Java/C#
Frameworks: React, Node.js, .NET, Flask, JUnit, Mocha
Tools: Git, Docker, Jira, Jenkins, Postman, AWS Cloud Services SEQ, LaTeX
Libraries: pandas, NumPy, scikit-learn, Tensorflow, PyTorch
Coursework: Database & Information Systems, Data Structures, Analysis of Algorithms, Systems Programming, Computer Security, Operating Systems, Object-Oriented Programming, Computer Architecture, Artificial Intelligence