

# Pramey Kabra

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## OBJECTIVE STATEMENT

I am a proactive, curious, and hard-working developer driven to contribute towards team goals.

## 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

**NSF Undergraduate Researcher** Aug 2023 – Present  
*National Science Foundation, Purdue University - Rosen Center for Advanced Computing* West Lafayette, IN  
• Enhanced 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

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

**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

**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, improving deploy workflow efficiency

**Data Science Researcher** Aug 2021 – May 2022  
*Purdue University - The Data Mine, PlaneEnglish* West Lafayette, IN

**Undergraduate Research Assistant** Sep 2020 – May 2021  
*Purdue University - EAPS Department* West Lafayette, IN

## ACADEMIC PROJECTS

**Bracket-Gen** | *Python, Node.js, React, PostgreSQL, Docker* May 2023 – Present  
• Worked on a full-stack project to predict tournament brackets for march madness from 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  
• Developed the backend platform for MVC based web application to cater to new Purdue students and visitors  
• Created database schemas and models with defined roles and permissions for 200 users and 5 admins

## ACADEMIC LEADERSHIP

**Executive Board - Webmaster** | *Purdue Science Student Council* Dec. 2022 – Present  
• Managed student organization's [website](#) and worked with the student outreach committee to host events

**Vice President** | *American Statistical Association - Purdue* Aug. 2022 – Present  
• Hosted academic, social, and career workshops for statistics students with professors and alumni

## TECHNICAL SKILLS

**Languages:** JavaScript/TypeScript, Python, C/C++, SQL/pgSQL, Java/C#  
**Frameworks:** React, Node.js, .NET, Flask, JUnit, Mocha  
**Tools:** Git, Docker, Jira, Jenkins, Postman, AWS Cloud Services, VS Code, SEQ, L<sup>A</sup>T<sub>E</sub>X  
**Libraries:** pandas, NumPy, scikit-learn, Tensorflow, PyTorch