Dishan Bhattacharya

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EDUCATION

Purdue University — West Lafayette, IN
Bachelor of Science in Computer Science, Minor in Business Economics — *Exp: May 2027*

Relevant Coursework: Data Structures & Algorithms, Linear Algebra, C Programming, Calculus III, Discrete Structures, Object-Oriented Programming, Competitive Programming, Microeconomics, Macroeconomics

EXPERIENCE

Variate, Purdue University — Jun. 2025 – Present
Software Developer — *West Lafayette, IN*
- Supported development of learning software with C# backend and React frontend, simulating Azure blob storage using Azurite.
- Used Postman to test and debug 5+ RESTful API endpoints, supporting user authentication and profile management.
- Built interactive UI components in React JS to display data retrieved from backend APIs and called SQL queries to support development.

Purdue Student Fee Advisory Board — Jul. 2025 – Present
Board Member — *West Lafayette, IN*
- Collaborated with a diverse committee of student leaders and university administrators to evaluate and recommend strategic allocation of $1.5 million in student fee funds after $6 million in requested funds.
- Assessed over 100 financial proposals from student organizations to ensure alignment with institutional priorities, student needs, and fiscal responsibility.

Boilerexams (Studying Platform for Purdue Students) — Nov. 2024 – Present
Data Analytics Lead — *West Lafayette, IN*
- Analyzed 8M+ submissions for 188 practice exams by engineering scalable Python workflows (Polars, Pandas), driving content optimizations and a 20% boost in engagement.
- Standardized difficulty ratings across 188 exams by analyzing user accuracy, time on task, and solution tool usage.
- Built Swetrix dashboards for usage and engagement trends to make product decisions across 25 courses.
- Delivered 8+ data reports with actionable recommendations, directly influencing feature improvements and content curation.

Purdue IEEE — Dec. 2024 – Jun. 2025
Vice President of Technical Committees — *West Lafayette, IN*
- Led and managed 7 technical committees with 800+ active members and $40,000+ in organization funds.
- Spearheaded workshops on machine learning and finance with 50+ attendees, presenting applications and economical impacts.
- Collaborated on networking events with students, academics, and industry partners for 100+ attendees.

Jubilee Club, Bengali Cultural Club — Jan. 2022 – Aug. 2024
Frontend Developer — *Philadelphia, PA*
- Built and maintained community portal serving 1.5K monthly users with curated local ethnic (Bengali) resources.
- Redesigned UI/UX to attract 6K+ unique visitors; improved navigation and visual consistency.
- Integrated interactive event calendar and newsletter system, increasing user retention by 15%.

PROJECTS

BoilerUp! Communications | *Java* — Nov. 2024 – Dec. 2024
- Led development and implementation of real-time messaging system through feature planning and unit testing.
- Designed message history retrieval with persistent storage, user login and friend/blocking system, and a responsive interface (GUI).
- Utilized Java concurrency features like threading and synchronized data structures to handle simultaneous user interactions and ensure thread-safe operations.

Tech Startup Success Predictor | *Python, Matplotlib, pandas, scikit-learn* — Jul. 2023 – Aug. 2024
- Hyperparameter-Tuned classifier machine learning models to predict Indian tech startup success with 82% accuracy.
- Employed feature extraction and visualization on startup data to highlight outliers and key findings: Seed lag, social media presence, and amount raised during seed funding as most important features.
- Authored paper accepted to JEI and presented findings at Purdue 2024 Fall Undergraduate Research Expo.

FunCha: Website for Ethnic Food | *Astro, React, Tailwind CSS* — Jun. 2023 – Aug. 2024
- Owned execution of custom full-stack web application with dynamic React components,
- Led team of 3 to addressed lack of Southeast Asian ethnic food resources online by curating & compiling Bengali recipes.
- Attract over 2,000+ unique page views within the first six months using React and Astro frameworks.

TECHNICAL SKILLS

Languages: Java, Python, C, C#, JavaScript, SQL, HTML, CSS
Libraries: Pandas, Polars, NumPy, Matplotlib, React, Node
Developer Tools & Skills: Git, RESTful API Design, Jupyter Notebooks, Microsoft Azure, Azurite, Docker, Google Cloud, MS Excel
Concepts: Fullstack Development, Machine Learning, Data Science, Data Engineering, DevOps, Mathematics, Agile, Automation