

SPARKLE BISWAS

765-586-3080 | sparklebiswas@gmail.com | <https://www.linkedin.com/in/sparkle-biswas/> | <https://github.com/Sparkle-Biswas>

EDUCATION

Purdue University

Bachelor of Science in Computer Science

West Lafayette, Indiana

August 2019 - December 2023

Coursework: Data Structures, Algorithms, Operating Systems, Software Testing, Database Design, Object-Oriented Programming, Web Development

WORK EXPERIENCE

BlackRock

Summer Analyst at Aladdin Product Group (ETF Systems)

San Francisco, California

June 2022 - August 2022

- Collaborated with senior engineers to solve a scalability design problem to onboard 1000+ Exchange-Traded Fund (ETF) products from 100+ ETF products
- Improved the main **Java** service's scalability by creating new micro-services to solve memory issues and allow the application to be multi-instance for task division
- Created API end-points to communicate between different services
- Implemented multi-threading and locking to enhance application performance

PROJECTS

Budgit

Full Stack Developer

June 2023 - July 2023

- Collaborated with a team of 4 to build a financial **web application** for young adults where they can budget, manage their subscriptions, join forums, and read finance-related articles
- Led and engineered the **User Interface Design** for the website using technologies like **Chart.js** and **CSS** animations while ensuring the website is mobile responsive
- Implemented a basic real-time chatting component using **Ably** to facilitate chatting between users and financial coaches
- Created application using **Next.js**, **MongoDB**, **Reactstrap**, and **MUI**

CampusLink

Full Stack Developer

February 2023 - April 2023

- Collaborated with a team of 5 to build a learning management system for creating, hosting, and editing online learning resources
- Built a web application that allows instructors to create and edit courses, create assignments and quizzes, post lecture material, edit student grades, and interact with students through discussion boards
- Engineered the front-end and back-end functionality for web application using **React**, **Material UI** and **Firebase**

LEADERSHIP AND INVOLVEMENT

Krach Leadership Center

Building Manager

West Lafayette, Indiana

August 2021 - December 2023

- Trained 10+ employees on how to use and manage the room and game equipment reservation system
- Managed the functioning of the 3-floor building which includes university offices and an outdoor lounge

Purdue Student Union Board (PSUB)

Project Leader | Mentor | General Member

West Lafayette, Indiana

September 2020 - January 2022

- Led a group of students to budget and plan 5+ events every semester with a maximum attendance of 100 people
- Guided new members in the organization during their first semester through Mentor-Mentee program and Big Buddy program
- Brainstormed and planned over 20+ campus events with a team which led to a maximum attendance of 500 people

SKILLS

- **Programming Languages:** Java, C, Python, Javascript
- **Frontend Frameworks/Libraries:** Node.js, React JS, Next.js, CSS, Chart.js, Material-UI (MUI), Reactstrap
- **Backend Frameworks/APIs:** Firebase, MongoDB, Ably
- **Additional Skills:** Git, Github, Linux command line