Dominic Bradley

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Young software development and IT professional with experience developing and maximizing quality of software for several industries. Leveraged customer support experience to deeply understand users' needs.

SUMMARY OF ACCOMPLISHMENTS AND CORE STRENGTHS

- **Full-Stack Software Development:** Successfully developed and deployed multiple software solutions, including a real-time collaboration platform (*TeamUp*) and an automated trading simulation tool (*Northern Trust x DePaul Competition*). Leveraged frameworks like Django, ReactJS, and PostgreSQL to build scalable, user-friendly applications.
- **Data Analytics and Machine Learning:** Integrated predictive analytics using LSTM models for trading simulations, enabling users to make informed decisions. Designed interfaces to visualize real-time data and trends.
- **Real-Time Data:** Implemented WebSocket integrations for instant updates, real-time notifications, and seamless communication, as seen in both collaboration and trading platforms. Optimized backend systems to handle concurrent users efficiently, using Node.js and Python.
- **Cloud Deployment and CI/CD Pipelines:** Deployed applications using AWS EC2 instances, Docker, and GitHub Actions. Streamlined deployment workflows to reduce downtime and increase production cycles.
- **Frontend Design and Development:** Built intuitive frontend interfaces using ReactJS, TailwindCSS, and HTML5/CSS3 to provide seamless user experiences for organizations like *Hunger At Home* and *TeamUp*. Developed SSO solutions with Azure to enhance accessibility and security.
- **Agile Collaboration and Leadership:** Led cross-functional teams at TeamUp to deliver ahead of schedule. Leveraged agile methodologies to organize tasks, maintain version control, communicate effectively across teams.

Software Development • Software QA • Computer Science • UI/UX Design • Algorithm Development Web Apps • Mobile Apps • Object-oriented Programming • Agile Development • MVC Frameworks • Prioritizing Problem Solving • Technology Sales • Presentations • Demos • Customer Relationship Management • Debugging • PHP Windows • Linux • Python • C • Java • JavaScript • CSS • HTML • SQL • Django React • Databases • PostgreSQL Relational Databases • Oracle •AWS • GitHub • Docker • GitHub Actions • Azure • Visual Studio • GitHub • Google Docs MS Excel • PowerPoint • Word

WORK EXPERIENCE

Hunger at Home, San Jose, CA (Remote)
Software Developer (October 2023–Present)

- Designed and developed the organization's frontend interface using JavaScript, PHP, WordPress, and HTML, customizing WordPress plugins to deliver tailored features.
- Developed a database integration system to track donations from up to 5,000 users, automating receipt generation for donors.
- Built analytics dashboards to track campaign performance between different sources, which provides comprehensive feedback to the company.
- Applied agile development methodologies to optimize workflows, improve deployment speed, and minimize errors

Foreign Currency Exchange and Trade Analysis Tool, Chicago, IL
Group member (November 2024)

- Designed and implemented a tool that leverages LSTM (Long Short-Term Memory) models to analyze time-series data and predict the future prices of currencies and cryptocurrencies, enabling users to make more informed trading decisions.
- Built real-time data analysis features using API calls and WebSocket's to fetch, process, and display live currency exchange rates.
- Created a user-friendly interface utilizing ReactJS, Bootstrap, and CSS, showcasing interactive data visualizations, trend analyses, and performance reports.
- Developed the backend using Django and Python to process data, handle prediction analysis logic, handle WebSocket communication, and manage user portfolios.
- Enabled users to view and manage their assets, integrating robust data storage and retrieval features to ensure accuracy and efficiency.
- Designed dashboards to visually present trading patterns, portfolio performance, and real-time currency trends, using charts and graphs to simplify complex data.
- Leveraged GitHub for version control and implemented agile development methodologies to ensure organized teamwork, rapid iteration, and timely delivery of project milestones.

TeamUp, Chicago, IL
Founder (June 2024, Present)

Built a platform to connect university students for project collaboration, enabling seamless communication and task management.

- Implemented user authentication, data integrity best practices, and efficient database design using PostgreSQL, avoiding redundancy while supporting features like user login, real-time messaging, and project post updates via WebSockets.
- Created a responsive, user-friendly interface showcasing posts, profiles, and messaging functionality, leveraging ReactJS and TailwindCSS for a responsive and optimal user experience.
- Ensured platform exclusivity for university students by implementing Single Sign-On (SSO) using Azure and MSAL-React, enhancing security and ease of use.
- Utilized Docker and GitHub Actions to set up a continuous integration and deployment pipeline, reducing downtime and accelerating production cycles.
- Integrated WebSockets for instant task updates, notifications, and progress tracking.
- Enhanced platform performance using Node.js to support multiple simultaneous users without latency or performance degradation.
- Planning to integrate a recommendation system using machine learning to suggest projects tailored to students' interests and expertise based on proximity and skills.

EDUCATION

B.S., Computer Science, concentration in software engineering, 3.8 GPA, dean's list,
DePaul University, Chicago, IL (expected in 2026)
Graduate, Bellarmine College Preparatory, San Jose, CA (May 2022)

Relevant Projects

- Designed and developed software in Python for DNA research. Enabled it to search DNA databases, read human DNA sequences, pair them with text files, and find genome sequencing patterns for use in forensics. Allowed it to find a person's STRs (short tandem repeats) of 4 genomes and count the number of times they appeared in a long sequence.