Derek Laboy

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EDUCATION

Boston University | Boston, MA   Expected May 2025
Bachelor of arts, Computer Science   *GPA: 3.68/4.00*

Coursework*: Data Structures, Discrete Math, Algorithms, Probability, Databases, Computer Systems, Software Engineering, Full-Stack Dev, Intro to AI, Tools for Data Science, Applied Machine Learning*

EXPERIENCE

Amazon.com | Irvine, CA   June 2024 – Aug. 2024
Software Development Engineer Intern
- Developed a web interface to automate management of Alexa experience configuration files, reducing configuration deployment time by 97.2% and minimizing errors through automated validation
- Implemented a configuration versioning system with rollback functionality and difference comparison view, enhancing configuration management and error recovery for system administrators
- Leveraged *React/Redux, TypeScript, Java*, and AWS services (*S3, Lambda, AppConfig*) in full-stack solution, ensuring high-quality, maintainable code through unit testing and peer code reviews

JPMorgan Chase & Co. | Plano, TX   June 2023 – Aug. 2023
Software Engineering Fellow
- Advancing Hispanics and Latinos program designed for development of business acumen, sharpening of software development skills
- Worked alongside team and coach utilizing Agile methodology to develop and present market entry strategy for banking partners of JPMorgan Chase & Co.
- Programmed virtual battle robot in Java, winning 1st place in competition against other teams in cohort

Vamrah LLC | Peekskill, NY   June 2022 – Aug. 2022
Junior Software Intern
- Developed Python program to identify and extract provider information from healthcare PDF documents to then be suitably formatted for clients, utilizing Python libraries *Pandas, Camelot, PyMuPDF*
- Received mentorship and worked alongside Senior Software Developers at Vamrah LLC

PROJECTS

Maze Reinforcement Learning   Nov. 2023 – Dec. 2023
- Developed reinforcement learning agent using OpenAI Gym's 'Frozen Lake' environment
- Implemented Q-Learning and Epsilon-Greedy algorithm for navigation and decision-making
- Utilized NumPy for data handling and Matplotlib for visualizing training progress

LEADERSHIP & ACTIVITIES

Boston Hacks   Feb. 2023 - Present
Tech Team Member
- Developed website alongside team members utilizing JavaScript and React to create admin portal for annual hackathon
- Collaborated with design team to implement graphics into website

SKILLS

Technical: Java, Python, TypeScript, React, AWS Lambda, AWS S3, Pandas, NumPy, Matplotlib, JUnit, Jest, Mockito, React Testing Library

Languages: English (fluent), Spanish (conversational), Korean (conversational)

Certificates: Software Engineering Lite (Forage)