Eric Bratu

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EDUCATION

University of Florida   Aug. 2022 - May 2026
Bachelor of Science in Computer Science   Gainesville, FL

EXPERIENCE

Software Engineer Intern, Village of Tequesta   May 2023 - Jul. 2023
Skills used: C++, SQL, AWS S3, REST APIs, Libcurl   Tequesta, FL
- Developed a C++ automatic data transfer program of employee info from local systems to AWS S3 cloud storage, reducing manual workload.
- Utilized Libcurl to process data alongside the timesheet software's REST API.
- Created an automated subsystem to export data into Excel, enhancing H.R. reporting capabilities.
- Deployed the program facility-wide, leading to adoption by 100+ employees and achieving an 83% satisfaction rate, ultimately increasing operational efficiency company-wide.

PROJECTS

Someplace Else   Oct. 2024 - Present
Skills used: JavaScript, AWS Lambda, API Gateway, DynamoDB, AWS S3, React.js
- Developed a full-stack serverless web app using AWS Lambda and API Gateway for backend and DynamoDB for data storage, enabling users to share and explore geotagged locations.
- Created an interactive map frontend with Leaflet.js by creating custom React components for map rendering and user interactions.
- Accomplished geospatial data storage using DynamoDB, indexing with Leaflet.js, and AWS S3 for image storage.

Amazon Echo Canvas Assistant   Jun. 2024 - Present
Skills used: Python, AWS Lambda, AWS API Gateway, Canvas REST API
- Designed a voice-enabled Echo skill for accessing student Canvas schedules using Python and AWS Lambda.
- Utilized Canvas' LMS REST API for immediate schedule information retrieval.
- Enabled serverless processing using AWS Lambda and handled Canvas API requests with API Gateway.
- Implemented secure login to manage user permissions and protect sensitive academic data.

Recipe Finder   Apr. 2024
Skills used: Python, Git, Tkinter, Pandas
- Built a Python application with a Tkinter GUI allowing users to input ingredients and search a dataset of 100k+ recipes, discovering recipes with the highest number of matching ingredients.
- Used graphs, maps, and priority queues to optimize the search algorithm and improve performance.
- Utilized Pandas for efficient data manipulation and processing of large datasets, enabling rapid search responses.
- Achieved 3rd place overall in a competition out of 200+ students in a Data Structures & Algorithms class.

LEADERSHIP

DevLUp UF Branch Secretary   Aug. 2023 - Mar. 2024
Skills used: Team leadership, Project management, Technical proficiency   Gainesville, FL
- Organized game development-related events such as socials, game jams, and speaker events for ~500 members.
- Conducted technical workshops and lectures on game development techniques, helping members learn new skills and broaden their expertise.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, C#, HTML, CSS, SQL, MATLAB, Batch script
Developer Tools: Node.js, AWS Lambda, DynamoDB, AWS API Gateway, REST APIs, Git, GitHub Pages, AWS S3, Figma
Libraries/Frameworks: Django, React, Pandas, Axios, Libcurl, Amazon ASK SDKs, Bootstrap, Leaflet.js