Austin Burnett

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TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, Python, SQL
Databases: MongoDB, PostgreSQL
Tools and Technologies: Git, Docker, NodeJS, ExpressJS, Flask, AWS (Lambda, CodeBuild, CloudWatch), Azure (Blob Storage, Devops) Postman, Mongoose, MongoDB Compass, Jest
Industry Knowledge: Unit Testing, API Development, CI/CD, Agile Methodologies, OOP

EXPERIENCE

Software Engineer Intern
June 2021 – Sept. 2021

Bitwerx, Inc.
Lexington, KY

- Refactored the data extraction codebase using C++, leading to a 20% reduction in data migration time.
- Designed an algorithm to generate database connection strings, ensuring connection is always acquired.
- Developed Microsoft installer (.msi) for product installation, reducing virtual machine provisioning time by 12%.
- Used Microsoft Azure DevOps to manage work items, allowing me to prioritize tasks.
- Participated in daily Scrum stand-ups by discussing tasks, improving team communication.

Open-source Backend Developer
May 2021

couchers

- Unit tested code by using pytest, increasing unit test coverage.
- Utilized feature branching in Git to enable faster code approvals and effective collaboration.
- Contributed a feature using flask to notify users when their friend request was accepted.
- This is a user-facing feature which is available to over 25,000 users internationally.

Computer Science Research Assistant
March 2020 – May 2021

University of Kentucky
Lexington, KY

- Created url routes using Django in a full stack app allowing users to intuitively interface webpages.
- Presented website at University of Kentucky E-day to over 3,000 attendees.
- Participated in peer-code reviews, resulting in code being more performant.

PROJECTS

Serverless REST API
2023

- Developed asynchronous javascript code, improving scalability.
- Deployed RESTful API with AWS (API Gateway, Lambda).
- Utilized Bearer Authentication/Authorization with JWT (Json Web Token) to secure API.

Social Media Backend
2023

- Built local development environment using Docker Compose.
- Continuous Integration (CI) using Github webhooks and AWS CodeBuild.
- Designed and tested RESTful API using Postman and ExpressJS.
- Unit test code using jest to improve code quality.
- Created data models using Mongoose ODM and MongoDB Compass.

Canine Breed Prediction
2022

- Implemented a CNN (convolutional neural networks) using PyTorch.
- Performed binary classification on Corgi images, enabling ML model to predict the Corgi breed.

EDUCATION

University of Kentucky (GPA: 3.1)
December 2022

Bachelor's in Computer Science

- Received Honor's Scholarship (Fred and Darlene May ECE Scholarship).

BSCTC Community College (GPA: 4.0)
May 2019

Associate's in Science
Dean's Honor Roll

- One of 2 selected at my High School awarded with ECA (Early College Academy).