

Mark Bassily

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EDUCATION

RUTGERS UNIVERSITY
BS IN COMPUTER SCIENCE
May 2024 | New Brunswick,
NJ
GPA: 3.4

SKILLS

Languages/Frameworks:

Java • SQL • Python
Javascript • React • React
Native • HTML • CSS
Bootstrap • JQuery • Scala • C
PostgreSQL • GraphQL
Mockito • JUnit • Selenium
PyTorch • Next.js • Tailwind

Technologies:

Git/Github • Docker • AWS
Express • Jenkins • Jira
Postman

Additional Skills:

Machine Learning • Web
Scraping • Neural Networks
Training Models • Concurrency
LLM • Transformer • Parsing

CERTIFICATIONS

AWS Certified Developer -
Associate

COURSEWORK

Artificial Intelligence

Information and Data
Management

Software Engineering

Internet Technology

Principles of Programming
Languages

Software Methodology

Computer Algorithms

Systems Programming

Discrete Structures I & II

Computer Architecture

Data Structures

Introduction to Computer
Science

EXPERIENCE

CLUTCH HOLDINGS | FULL-STACK SOFTWARE ENGINEER INTERN

May 2023 - August 2023 | Remote

- Designed and maintained database queries, API endpoints, and frontend pages using PostgreSQL, Java, Scala, React, JavaScript, HTML, and CSS.
- Reduced large table loading times by 80% through optimized API calls and pagination; automated manual tasks with web pages to empower non-technical users.
- Constructed unit and integration tests for smooth deployment and ensured robust legacy system updates using HTML and JQuery.
- Collaborated effectively with the team, balancing multiple tickets concurrently and using tools like GitHub, Jenkins, and Jira for source control and documentation.

PROJECTS

MORE ON MY PORTFOLIO WEBSITE: resume-markb2575s-projects.vercel.app

Jukeboxd

- Built a social music platform with React, Express, and MariaDB, featuring a modern UI styled with CSS and Bootstrap.
- Implemented paginated search for 40,000+ results, secured accounts with JWT authentication, and encrypted passwords.
- Used Python to parse CSV files and populate SQL database entries for tracks, albums, and artists.

AI Stock Predictor

- Trained an LSTM model in Python using Keras to predict stock prices 30 days into the future.
- Trained on S&P500 stock history retrieved via the yfinance API.

Gap Scanner

- Scans tickers for price gaps between previous market close and current price to identify the largest gap-ups during premarket using Yahoo Finance API.
- Ranks results by gap size in a Tkinter-based GUI.

till-failure

- Developed a gym workout planning and tracking app using React Native.
- Includes 500 exercises rated for effectiveness, filterable by target muscle.
- Features animations and a modern design.

Translit Copt

- Utilized Tesseract OCR with Python for text detection in images.
- Transliterates foreign text into English using a custom library made with Python.

Daily Blessings

- Engineered a full-stack app for managing classes, students, and teachers, allowing students to answer questions daily and teachers to review.
- Handled tasks like database schema design, authentication, middleware, and API usage examples.
- Built with Next.js, TypeScript, Tailwind CSS, BetterAuth, Drizzle ORM, and MySQL.
- Provided guidance to other team members on React component creation, API design, and database manipulation.