

Tyler Gibbs

SOFTWARE ENGINEER

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06/13/2002

Highly motivated university student with a concentration in software engineering, currently holding a 3.8 GPA. With more than 4 years of relevant work experience and a history of extracurricular involvement, I'm keen on channeling my problem-solving skills and passion for technology. Renowned for my results-oriented approach and team-centric mentality, I am adept at developing effective software solutions and fostering team success.

EXPERIENCE

DATA ANALYST

Lexis Nexis – Aug 2023 - Present

- Conducted thorough data analysis using SQL, Python, and Excel to support business decision-making.
- Designed, developed, and maintained data reports and dashboards using Tableau and Power BI to visualize key metrics and trends for stakeholders.
- Collaborated with cross-functional teams to identify key performance indicators and provide actionable insights.
- Performed statistical analysis and predictive modeling to forecast trends and business outcomes.
- Managed data cleaning, validation, and preprocessing to ensure accuracy and reliability of analysis.

SOFTWARE ENGINEER FREELANCER

Relevant Technical Experience – Jul 2022 – Aug 2023

- Collaborate with clients to understand their business needs and translate them into technical requirements, ensuring the delivery of innovative, efficient solutions.
- Design, code, test, and debug complex software applications, ensuring the development of high-quality, scalable products.
- Utilize a variety of programming languages including Java, Python, and C++, adapting to the preferred language of the client or project requirements.
Continually adopt and learn new technologies and frameworks to improve the quality of delivered software solutions.
- Employ Agile methodologies to manage the development process effectively, accommodating changes and delivering frequent product increments.
- Provide ongoing maintenance, support, and enhancements to existing systems and platforms.
Maintain high standards of software quality within the team by establishing good practices and habits.

OPENAI HACKATHON PARTICIPANT

Relevant Technical Experience

- Collaborated with a team of five to develop an AI-powered chatbot for mental health support using OpenAI's GPT-3 language model.

- Utilized technical skills in machine learning, natural language processing, and API integration to train and deploy the chatbot, resulting in a functional and user-friendly solution.
- Presented the chatbot to a panel of judges and industry experts, showcasing its potential to provide accessible and personalized mental health support.

STUDENT DEVELOPER

Relevant Technical Experience

- Worked with MOZILLA as a part of Google Summer of Code.
- Worked on Extension Activity Monitor which is a privileged extension for Firefox that uses the activity Log API (privileged API) to monitor the activities of the other installed extensions.

JARVIS - PERSONAL ASSISTANT PROGRAM

Project Experience

- Speech recognition and natural language processing for audio input.
- Integration with OpenAI's GPT-4 API for natural language responses.
- Real-time data retrieval and exception handling.
- Can create apps on command.

COP CAM — IOS APP

Project Experience

Discreet Recording: Developed an iOS app with a black screen recording feature to ensure privacy and promote fairness in courtrooms.

- Cloud Integration: Enabled automatic uploading of recordings to Dropbox for secure storage and easy access.
- Emergency Contact Function: Implemented a feature to quickly send pre-configured messages to emergency contacts, enhancing personal safety.
- Equilibrium Promotion: Designed the app to advocate fairness in legal proceedings by providing a tool that ensures transparency and accountability.

RISKLABS - AI-POWERED REAL-TIME STOCK MARKET INSIGHTS

Project Experience

- Developed an AI-powered platform to provide real-time stock market insights, leveraging the CrewAI framework for orchestrating autonomous AI agents for comprehensive stock analysis.
- Implemented a dynamic web interface using HTML, CSS (Tailwind), and JavaScript, providing users with an engaging and informative landing page, signup/login functionality, and detailed feature descriptions.
- Engineered financial analysis tools in Python, integrating APIs like SEC-API for financial filings analysis, and Yahoo Finance for market news, to gather and process stock-related data.
- Utilized GPT-4 and GPT-3.5 for natural language processing, enabling the AI agents to generate insightful, human-like analysis of stock market trends and company performances.
- Designed a user-friendly dashboard for users to input stock symbols, receive comprehensive analysis reports, and visualize data through interactive charts and real-time updates.
- Incorporated machine learning techniques to refine the AI agents' analysis capabilities, allowing for more accurate predictions and recommendations based on historical data and market trends.
- Deployed the application on Heroku, ensuring scalability and accessibility, and integrated Facebook Pixel for web analytics and targeted marketing.
- Conducted extensive testing and optimization to ensure the platform's reliability, efficiency, and user-friendly navigation, adhering to best practices in software development and documentation.

EDUCATION

Relevant Coursework

- Data Structures and Algorithms
- Object-Oriented Design
- Operating Systems
- Data Analytics

Extracurricular Activities

- Member, University of Oklahoma Robotics Team

SKILLS

- Python
- Flask
- Django
- Git
- Data Visualization
- Problem Solving
- C++
- Pathfinding Algorithms

VOLUNTEER EXPERIENCE

CODING BOOTCAMP VOLUNTEER

Norman, OKLAHOMA

University Of Oklahoma

Assisted in teaching coding basics to local school students, developing their interest in software engineering and space technologies.

TUTOR

Norman, OKLAHOMA

University Of Oklahoma

Volunteered to tutor students in Computer Science, emphasizing programming, algorithms, and data structures.

AWARDS

- Best Innovative Project - OpenAI Hackathon