David Mostoller
Full Stack Software Engineer

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Philadelphia, PA, USA

Portfolio | LinkedIn | GitHub | Medium

Innovative Full Stack Software Engineer blending music and teaching experience with expertise in JavaScript, React, and Python. Adept at collaborating in agile teams to create cutting-edge applications and enhance UX.

Core Skills

Languages: Python, Javascript, HTML, CSS, SQL, .NET, PHP, Typescript, Ruby
Frameworks/Platforms: React, Node.js, Next.js, Vue.js, Flask, REST APIs, Flask-Restful, SQLAlchemy, Webpack, PostgreSQL, Redux, SemanticUI, TailwindCSS, AWS, GraphQL, MySQL, Cloudflare, Docker
Tools: Git, Mapbox, Cloudinary, ChatGPT, Google APIs, Adobe Creative Suite
Skills: deployment automation, security engineering, front end development, back end development

Education

Flatiron School
Dec 2023 - Mar 2024
Software Engineering

Wesleyan University
Sep 2004 - May 2008
Bachelor of Arts Government

Experience

Full Stack Software Engineer   June 2022 - Present
Freelance | Philadelphia
- Successfully integrate inclusive product design strategies with full stack development methodologies to optimize end-user experience while designing web applications for independent clients using an extensive range of cutting-edge web technologies including APIs, LLMs and AI.
- Test and deploy servers and software applications for client websites.
- Work closely with clients to establish application specifications and designs. Apply and inquisitive mindset to modify and maintain existing projects to correct errors, improve performance and scale applications.
- Leverage professional development opportunities to master full stack software engineering tools and methodologies.

Music Teacher / Web Developer   June 2020 - Dec 2023
Future Media Academy | Belgium
- Mentored international students in electronic music production to foster future industry success.
- Improved the school's website for 5,000 international students by enhancing accessibility, optimizing the front end UI, and adding video streaming and real-time chat features.

Electronic Music Producer   May 2008 - Dec 2023
Kabayun, Superluminal | Philadelphia
- Created and performed original electronic music in 40+ countries, with 100+ tracks released internationally.
- Demonstrated autonomy in developing and managing and my own brand-promoting artist website.
- Oversaw a robust social media following of 100,000+.
- Exhibited ability to take responsibility in overseeing projects from inception to completion.

Business Analyst   Jan 2015 - Nov 2016
Zoomer Inc, | Philadelphia
- Managed and ensured the accuracy of large SQL datasets, maintaining complex reports and dashboards.
- Utilized Mapbox to create data visualizations for complex insights, aiding executive decisions on market entry and investor attraction as Zoomer grew to a $20 million valuation, rivaling other RDS startups like DoorDash.
- Managed complex projects with a strong ownership and a consistent track record of meeting deadlines and delivering effective solutions.

Software Engineer / Account Manager   Jan 2010 - Oct 2012
Entourage Yearbooks | Princeton
- Headed a team to develop a .NET/Javascript full stack web app, which included an online store and yearbook management features. This contributed to Entourage becoming the fastest growing yearbook company in the USA at that time.
- Helped integrate Chili Publish, making us the first US online yearbook publisher with comprehensive web-based design software.
- Leveraged end-to-end testing methodologies to ensure seamless compatibility between front-end and back-end systems for improved UX.
- Managed client accounts, facilitated photo book creation, and provided technical support to the clients.

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Volunteer Experience

Volunteer   June 2020 - Sept 2021
Vamos Juntos | Philadelphia
· Distributed food aid to the South Philadelphia Latinx community.

Projects

TutorBot Github | Demo | Website   May 2024
A chatbot assistant that answers queries based on the context of youtube video content.
· Developed a function that uses the youtube-transcript-api to create transcripts of videos from a youtube playlist and save them as .txt files.
· Implemented llama-index to index the transcript files.
· Integrated ChatGPT through its API to enable queries restricted to the context of the video transcripts.
· Coded a React front end so users can interact with the chatbot through a web browser.

Musician's Base Github | Demo | Website   March 2024
A social fan page allowing musicians to create content and fans to interact with content and other fans through comments, a chat forum, and saving music releases to their collection.
· Developed a React/Javascript front-end and Python/Flask-Restful/SQLAlchemy back-end application.
· Implemented useContext and Bcrypt to authenticate users and manage user/admin authorization.
· Integrated Cloudinary and WaveSurfer to enable image and audio file uploads and audio playback.
· Leveraged Google APIs to implement Youtube video playback, a user Map, and a GIF picker.

Social Artist Portfolio Github | Demo | Website   February 2024
An artist portfolio with social features, allowing users to comment on posts and paintings.
· Developed a Flask-Restful/SQLAlchemy backend to create a structure for a social portfolio website.
· Developed a React frontend to enable users to access the site, sign up as users and make comments.
· Coded forms with Formik/Yup validation so that an admin can create/edit/delete resources directly from the site.
· Implemented Cloudinary to enable the direct upload of images and videos from the react front end.

Mars Base Game Github | Demo   February 2024
An interactive turn-based CLI game created with Python and SQLAlchemy.
· Developed Flask-Restful resource models and routes to create the basis for a game.
· Coded a looping structure of functions in python to create a turn based game in the style of Oregon trail.
· Integrated ASCII art and the Playsound library to add art and music to the game.
· Designed logic structures and assigned probabilities to make the game a mix of chance and skill.