

Benjamin Arnett

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EDUCATION

George Mason University

Bachelor of Science in Information Technology, Conc. in Web Development & Multimedia

Fairfax, VA

Aug. 2018 – Dec. 2023

EXPERIENCE

Web Development Intern

Skywide Logic LLC

May – Aug. 2023

North Hollywood, CA

- Collaborated with a team of interns to enhance a WordPress website connecting recruiters with job candidates, optimizing the user interface and site performance.
- Evaluated 5+ API plugins for importing occupational data, ensuring smooth integration for existing features.
- Designed and styled key web elements, including banner images and search fields, to enhance the site's visual appeal and usability.
- Troubleshoot plugin configuration errors during updates, improving site security and reliability.
- Created a subdomain for implementing and testing development branches.

PROJECTS

rfs - Remote File System | *Express.js, React, Tanstack Query, Tailwind CSS, esbuild, Docker* May – Sept. 2024

- Developed an interface enabling users to associate metadata with uploaded files using tags.
- Optimized front-end, reducing build time and server startup to approximately 65ms, improving development efficiency and workflow performance.
- Triggered image files to render upon selection, allowing users to visualize file contents instantly.

Passphrase Gen | *React, Tailwind CSS*

Jan. 2024

- Programmed an application which requires an average of 27.2 million years to correctly guess a 7-word phrase at one trillion guesses per second.
- Leveraged common random words in output for effortless recall.
- Displayed passphrase strength in bits of entropy and the average time needed to correctly guess each phrase to provide a more informed user experience.
- Enabled compatibility for seed phrases, password managers, encryption keys, and disk encryption.

GMU IT Senior Capstone | *Home Assistant, YAML, VirtualBox, Spiceworks*

Jan. – Dec. 2023

- Collaborated with team to implement 2 technical solutions for client resulting in positive return on investment.
- Produced custom automated customer notifications for smart TVs, saving an estimated \$15 per week in labor costs by eliminating unnecessary customer-employee.
- Deployed an incident logging system with role-based access controls, reducing labor costs by an estimated \$75 per week through streamlined employee-manager communication.
- Implemented Agile methodology and SDLC best practices, conducted unit, alpha, and beta testing, and ensured the team met client requirements.

Shattered Pixel Dungeon Website | *Bootstrap, jQuery, XMLHttpRequest*

Aug. – Dec. 2023

- Established an enthusiast website dedicated to the *Shattered Pixel Dungeon* game.
- Crafted form validation and animations to ensure responsive and interactive pages.
- Applied AJAX to display images on user input, reducing load times by 0.5 seconds per input.

SQLite Editor | *Express.js, EJS, SQLite*

Jan. 2023

- Designed functionality for users to create, delete, and search SQLite databases.
- Implemented user confirmation prompts for database deletions to prevent accidental loss.
- Developed dynamic search filtering for real-time database query results.
- Built RESTful API routes to handle GET and POST requests.
- Created EJS templates for reusable components such as headers and footers, improving and consistency.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, SQL (SQLite, MySQL), Bash/sh, HTML, Markdown

Web Technologies: React, Express.js, Node.js, Flask, Vite, JSON

Developer Tools: Git, GitHub, Visual Studio Code, Asana, Trello, Virtual Machine Manager, Linux, Atlassian Jira