David George Smith

Mid-Level Full Stack Software Engineer

Location: Davis, CA 95616
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GitHub: Profile
LinkedIn: Profile

Experience

University Of California Pavement Research Center
Full Stack Software Engineer (May 2019-2021)

Lead Software Engineer, Lab Tracking System March 2019 - Current
- Technologies stack: NodeJS/ExpressJS, MSSQL, Javascript, HTML5, JQuery, Bootstrap4. OAuth, Box API, Node middleware, EJS, MatLab, JSON, Web services, IMAP
- Designed a complex system for UCPRC that has a traffic of over 100 workers/users a day.
- Designed, managed, and updated MSSql relational database.
- Worked with lead data scientist, lab managers, project managers, and operators, to implement new features that helped improve functionality and efficiency of their work.
- Rooted out bugs, improved efficiency, test cases, document
- Design and implement of continuous integration and deployment (Over 700 personal git commits to the project)
- Created in depth public wiki pages about how to use and navigate features of the website.
- Automated lab work, data collection, emails, and detailed reports.
- Created a system hierarchy for registered users
- Reduced lab operations and data entry time resulting in higher productivity and a faster production schedule.
- Implemented large scale graphing to help visualize immense amounts of key data points of interest.

Other Responsibilities
- Network admin: managed users on network. Added and removed users from domain.
- updated servers software, security, and managed active servers.
- IT: managed company computers software/os/hardware. Consulted on what hardware, software, licenses to purchase. Updated computers by installing new versions of software, hardware, and operating systems(Windows 10).

Freelancer, *full stack web developer* (3 ½ years)

Developer - Jan 2017
- Helped redesign and improve UI/UX
- Developed cross platform UI / mobile friendly
- Created web compliant metadata for SEO find-ability
- Custom search engine →California City Finances

Non Profit Website QA - Nov 2018 - Current
- Made UI/UX decisions and suggestions.
- Implemented new designs to improve website traffic.
- Consulted with clients to outline website goals, illustrate wire frame, site functionality, and helped bring their vision to life.
- Met frequently to deliberate about websites issues, ideas, goals, deliveries, and design choices. →Civic Energy

Designer and Developer - Dec 2016
- Consulted with clients to outline website goals, illustrate wire frame, and site functionality
- Validated site by testing JavaScript, Flash, CSS3, and HTML5 code to ensuring cross-platform compatibility
- Maintains website by updating content and adding new features
- Developed a user-friendly architecture by programming site navigation, social media links/widgets, and organizing site content into a logical catalog →MeriSuperak

Skills

Proficient:

Javascript, Node/Express, React, JQuery/Ajax, PHP, C++, Swift, HTML5, CSS3, XMS, Bootstrap, PHP, QA, data analytics, debugging/testing, agile/SCRUM, Linux/UNIX, MSSQL, Firebase, git, makefiles, OOP, DFA design, data structures, algorithm analysis, REST/SOAP API, MVC, JSON, Visual Studios, MSSQL, MERN Stack, HTTP

Experienced:

MIPS, ASP.NET, C#, Android, Selenium, MatLab, MongoDB, Scheme/Guile, X86, C, Java, Python, AngularJS, Network Admin, IT, Excel

Sonoma State University, Rohnert Park, California
B.S Computer Science
June 2018

Courses

data structures, algorithm analysis, Programing Languages, Computer Security, Operating Systems, Full SSU curriculum

Accomplishments

SMUD Solar Regatta
– Engineered solar powered boat with Women In Tech at Sonoma State University.
– Won multiple awards: Judges choice, peoples choice, and Slalom race winner.

Founding Father Sonoma State Men's Club Soccer
– Chartered Jan 2011