Rory Dowse
Software Engineer
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Summary

Creative, self-starting, and detail-oriented software developer with extensive experience designing and building responsive, user-friendly websites and applications. Proven ability to develop interactive learning tools and optimize online platforms for increased engagement and visibility.

Skills

Front End: AJAX, Bootstrap, CSS, HTML, JavaScript, jQuery, React.js, TypeScript.

Back End: APIs, bcrypt, Express.js, JSON Web Token (JWT), MongoDB, Mongoose, Node.js, NoSQL, PostgreSQL, Python, REST APIs, Sequelize, YAML.

Tools and Methodologies: Agile Methodologies, CI/CD, CircleCI, Command Line Interface, Cypress, Developer Tools, DOM, Git, GitHub, GitHub Actions, Insomnia, MongoDB Compass, Prompt Engineering, Responsive Web Design, Test-Driven Development (TDD), Vite, Visual Studio Code, Web Accessibility, Wireframing.

Projects

Finance Flow | github.com/RoryDowse/finance-flow | finance-flow-f2zu.onrender.com

- Developed a tool that calculates cash flow to support user investment and travel decisions, using stock market and currency exchange APIs.
- Built the Cashflow, Investment, and About components and API requests, and managed the Kanban board.
- Node, Express, React, PostgreSQL, Sequelize, JWT, bcrypt, Bootstrap.

Car Loan Payment Calculator | github.com/RoryDowse/car-loan-payment | rorydowse.github.io/car-loan-payment

- Built a tool to help car buyers assess savings by comparing base monthly payments with third-party quotes.
- Led the development in an Agile environment and contributed the majority of the code, the README, and the GitHub workflow.
- HTML, CSS, JavaScript (JS), Google Fonts API, DOM, Bootstrap, JQuery.

James Woodrow Violin | github.com/RoryDowse/james-woodrow-violin | jameswoodrowviolin.com

- Created a business site with a "wood" theme to reflect the client's profession, incorporating visual elements inspired by violins, strings, and parchment.
- Delivered ahead of schedule with positive client feedback on design and engagement.
- HTML, CSS, JavaScript (JS), Google Fonts API, DOM.

Experience

Front End Developer
CanKnowPiano
Phoenix, AZ
2016 – Current

- Increased brand revenue by 180% through strategic web design and development.
- Designed responsive, accessible websites with Google PageSpeed scores of 100% across devices.
- Built educational applications for clients, achieving an overall satisfaction rating of 4.9/5.
- Led consultations and created wireframes to gather requirements and visualize solutions.
- Enhanced SEO, certified by HubSpot, boosting site traffic by 198%.
- Consistently delivered projects ahead of deadlines, building essential stakeholder trust.

Accomplishments, Recognitions, and Awards

- Presented and published at numerous conferences and journals, managed projects, and founded a coding group, demonstrating strong leadership and communication.
- Won scholarships and competitions while maintaining high client satisfaction, exemplifying exceptional time management.
- Created software solutions that resolved client issues, increasing client satisfaction through innovative approaches.

Education

Software Development Certificate | Arizona State University | Jun – Nov 2024 | Phoenix, AZ

Master of Music Degree | Royal Northern College of Music | Sep 2011 – 2013 | Manchester, UK

Bachelor of Music Degree | Queen's University Belfast | Sep 2008 – 2011 | Belfast, Northern Ireland