

**Rory Dowse**  
Software Engineer  
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### Summary

Forward-thinking front-end developer with a strong focus on high-quality, user-friendly designs and a commitment to continuous learning and innovation. Skilled in both creative and analytical problem solving, consistently delivering impactful solutions. Proven ability to lead, collaborate, and work with diverse teams to deliver quality outcomes. Passionate about React development and dedicated to sharing knowledge to foster collaborative growth.

### Skills

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

**Back End:** APIs, bcrypt, Express.js, JSON Web Token (JWT), MongoDB, Mongoose, Node.js, NoSQL, PostgreSQL, Python, PyMongo, 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 Content Accessibility Guidelines (WCAG), Wireframing.

### Projects

**DevDemand** | [github.com/RoryDowse/DevDemand](https://github.com/RoryDowse/DevDemand) | [devdemand.onrender.com](https://devdemand.onrender.com)

- Created a platform that connects software developers with small businesses.
- Contributed the project concept, profile form and developer card components, and form validation.
- React, Bootstrap, GraphQL, MongoDB, Mongoose ODM, GitHub Actions, JWT

**Finance Flow** | [github.com/RoryDowse/finance-flow](https://github.com/RoryDowse/finance-flow) | [finance-flow-f2zu.onrender.com](https://finance-flow-f2zu.onrender.com)

- Developed a tool that calculates cash flow, integrating stock market and currency exchange APIs to assist users with investment and travel decisions.
- Built the cashflow, investment, and about pages, 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](https://github.com/RoryDowse/car-loan-payment) | [rorydowse.github.io/car-loan-payment](https://rorydowse.github.io/car-loan-payment)

- Built a tool to help car buyers assess savings by comparing monthly payments and quotes.
- Contributed significantly to development in an Agile environment, including coding core features and maintaining project documentation.
- HTML, CSS, JavaScript, Google Fonts API, DOM, Bootstrap, jQuery.

## Experience

Web Developer  
CanKnowPiano  
Phoenix, AZ  
2016 – 2024

- Designed, developed, and maintained responsive landing pages to promote services, improving accessibility and cross-device compatibility.
- Developed educational applications and tools, with an average satisfaction rating of 4.9/5 from clients.
- Optimized site performance, achieving a 99+ PageSpeed score, resulting in a 25% reduction in load times and improved user retention.
- Organized client consultations to gather requirements and created wireframes, turning ideas into actionable design solutions.
- Implemented SEO strategies from HubSpot certification, increasing site traffic by 50% over 6 months through targeted content and keyword optimization.
- Collaborated with clients to ensure optimal outcomes, delivering 95% of projects ahead of deadlines.

## Accomplishments, Recognitions, and Awards

- Presented at several conferences, published in a number of journals, and founded a coding group with quality leadership and communication.
- Awarded scholarships and won competitions while maintaining high client satisfaction rate, prioritizing 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

- Received “A” Grade with an overall mark of 98% (class average: 69%).

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