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David Burt

Software Engineer

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I am undertaking a career change from registered nurse to software engineer. I love solving puzzles. I humbly embrace technology and teamwork because I find systematic processes fascinating. I've invested in my transition by completing a software development course with General Assembly. I've accumulated over 500 hours of practical experience and am proud of the applications I have developed: [Space Station Locator](#), [DoseMaster](#), [Where's the UV?](#) Recognised for excellent teamwork, strong communication skills, and a sense of humor, I'm keen to apply my professional experience and thirst for learning to software engineering.

Technology skills

- **Languages & frameworks:** JavaScript, React.js, Node.js, Express.js, MERN-stack, Python, SQL, HTML, CSS, Django.
- **Management and development:** GitHub, Command Line, Heroko, Visual Studio Code, Postman.
- **Web APIs:** AWS, Integration of RESTful APIs, familiarity with API documentation, Google Maps, OpenStreet API, OpenNotify API.

Key Transferable Skills

- Ownership and critical thinking - Consistently ranked top 10 out of 120 nurses for monthly clinical assessments.
- Collaboration - Enhanced nursing documentation standards during COVID-19, leading to quicker identification of exposed staff and patients.
- Professional development - Known as "Doctor Dave" for my passion for learning, I was selected to complete all levels of adult and pediatric emergency training.

Work Experience

Student, Junior Software Engineer	General Assembly, Sydney	Jan 2024- April 2024
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Front-End Development: Proficient in JavaScript, HTML, and CSS. Skilled in designing, developing, and testing web pages and SPAs with React.js. Experienced with DOM manipulation and virtual DOM for efficient UI updates.

Back-End Development: Confident with Node.js, implementing Express.js for HTTP requests, route management, business logic, and CRUD operations with RESTful APIs. Integrating AWS services for image uploading and storage.

Database Management: Experienced with relational (PostgreSQL) and non-relational (MongoDB) databases. Designed schemas, implemented data validation, and performed searches. Normalization vs. denormalization trade-offs.

Authentication: Implemented OAuth2 for role-based access control. Used local storage and JWT web tokens. Used Google Cloud Console to whitelist callback URLs.

Development Practices: Familiar with the MVC architecture, MERN stack, asynchronous processing, and serving data in JSON format. Use iterative development and version control.

Testing: Exposure to testing principles with Mocha.js.

Projects

[Minesweeper](#) - An adaptive cross-platform version of the classic game using HTML, CSS and JavaScript.

Key Learnings

- Pseudocode, storyboards to understand and solve problems before development.
- Application structure: global variables, event listeners, functions, event handlers, application logic.
- Code hygiene and use of loops to create multiple elements and attach event listeners.
- DOM manipulation, responding to user interactions and changes within the DOM.
- Debugging and testing, problem deconstructing. Checking data types and testing edge cases using the console.
- Version control with GitHub.

[InclusiveDine](#) - Authorised users are able to add a restaurant, the address and cuisine to a database of restaurants. Users can browse the list of restaurants, create reviews and see reviews based on wheelchair accessibility. A user is able to edit and delete their own reviews when logged in.

Key learnings

- Communication principles between frontend and backend.
- Building routes and controllers for modularised dataflow to the model and views.
- Understanding HTTP methods and RESTful API theory. Using Postman to test API endpoints.
- Basic security principles with JWT access and refresh tokens.
- Implementing GoogleOAuth using Google Cloud Console.
- Used EJS with HTML to make dynamic web pages.
- Used HTML template headers and footers for homogenous code.
- Understanding NPM, importing and exporting modules and functions.

Senior Registered Nurse	Mediserve Sydney	Feb 2023- Jan 2024
<ul style="list-style-type: none">• Commended for early recognition of patient deterioration and a reduction of inpatient emergency calls.• Mentored students and new graduate nurses, resulting in improved learning outcomes and enhanced patient care.		
Senior Registered Nurse	NSW Health, Wollongong Emergency Department	Jun 2019- Jan 2023
<ul style="list-style-type: none">• Senior roles within the emergency department such as triage and resuscitation, mentor. Contributed to decision-making about patient flow through the department resulting in improved patient outcomes and NSW Health KPIs being achieved.		
Registered Nurse	NSW Health, Lithgow Hospital	Mar 2016- Dec 2018
<ul style="list-style-type: none">• Collaborated with Emergency, Inpatient and Operating theatre teams to provide safe and high-quality patient care.		

Education and Certifications

• Software Engineering Immersive, General Assembly, Sydney.	Jan 2024- April 2024
• Accreditation in Advanced Life Support, Australian Resuscitation Council.	June 2022
• Certificate III Critical Care Nursing, University of Tasmania, Hobart.	Jan 2019- Jan 2020
• Accreditation in Advanced Life Support, Australian College of Nursing.	Nov 2017
• Certificate in Venepuncture and Pathology Collection, TAFE NSW.	Sep 2016
• Bachelor of Nursing Science, University of Wollongong, Wollongong.	Jan 2012- Dec 2015