Sydney, Australia
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David Burt
Full stack
Software Engineer

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Professional Summary

Dynamic full-stack software engineer with a background in critical care nursing. I thrive on crafting innovative solutions and continually expanding my expertise in software engineering. Known for collaborative teamwork and excited to apply my nursing experience and software engineering skills to the HealthTech sector to support the wellbeing of others.

Technologies and Languages

- Languages: React, Python, Django, SQL, Javascript, HTML, CSS.
- Technologies: Node.js, Express.js, MongoDB, GitHub, Heroku, Bootstrap, MERN-Stack.
- Other: Data structures and algorithms.

Key Transferable Skills

- Collorbation - During the COVID-19 pandemic I collaborated with the development of HIRAD, a framework for patient assessment and documentation. My contribution resulted in the accurate documentation of personal protective equipment worn by staff members and patients during assessments. This assisted identifying staff and patients that may have been exposed to COVID-19 unknowingly. Collaborating to develop and implement effective solutions is my caffeine. My clear communication and adaptability in high-pressure scenarios ensure that team members and the public are well-informed.
- Problem solving - Consistently ranked in the top 10 out of 120 staff members for completing the most number of nursing assessments. As an experienced professional I have a deep set of problem-solving skills that are directly applicable to the dynamic environment of IT. I've learned to approach the situations methodically, break down responses into small, meaningful steps and accurately document to set a benchmark of professionalism.
- Continual development -   Often referred to as Doctor Dave and commended by medical colleagues for input on patient cases. I have developed a passion for soaking up information and applying my learnings. As a result I was asked to complete all levels of emergency training from acute and pediatrics through to resuscitation team member and tirage.

Experience

Software Engineering Student   **General Assembly, Sydney**   **Jan 2024 -April 2024**

- Accumulated over 500 hours of practical experience with web technologies such JavaScript, HTML, CSS and Python. Including designing and implementing web applications to meet specific outcomes such as single page applications using React.
- Experience with relational and non-relational databases, designed database schemas, checked for data validation, competent understanding of JSON for sending and retrieving information through client side request to server side response using MERN-Stack.
- Competent within agile software development methodologies such as pair programming including the sharing or knowledge and the taking on and implementing of constructive feedback.

   Minesweeper - An adaptive cross platform version of the classic game using HTML, CSS and Javascript. Key learning points - wireframing, interacting with the document object model and recursion.

Key Learnings

- Pseudocode Planning Proficiency: Used 'if' statements to map out loop logic.
- Fundamental Awareness: Emphasized the importance of checking data types.
- Patient Debugging: Learned that debugging requires patience and time.

- **[InclusiveDine](#)** - Modern API design principles and concepts with Node.js. Concepts include caching and content negotiation. The idea is particularly close to my heart and continues to develop in my spare time.

  Key learnings

  - Comprehensive Model-View-Controller Understanding: Mastered the intricate flow of client request and controller responses within the MVC framework, ensuring efficient and logical data processing
  - Strategic Data Embedding: Acquired the ability to strategically embed data within a model, enabling full CRUD functionally and enhancing data management efficiency.
  - Problem Solving: Developed a deep understanding of various error codes and their root cause, facilitating rapid diagnosis and resolution of issues.

Senior Registered Nurse   **NSW Health, Sydney Local Health District**   **2023-2024**

- Strong team player with autonomous capability for problem solving and strong communication skills utilized when collaborating with Royal Flying Doctors and Ambulance NSW to establish context and the required needs of clients of the healthcare system.
- Deep understanding of maintaining stakeholder confidentiality and working within professional standard frameworks such as the Nursing and Midwifery Board code of conduct. Following established frameworks leads to fostering mutually trusting relationships to achieve client centric outcomes.
- Actively developed and implemented educational strategies for students and junior nurses, resulting in an enhancement of skills sets and junior knowledge.

Senior Registered Nurse   **NSW Health, Wollongong Emergency Department**   **2019-2023**

- Delivered high standards of patient care and interventions within the context of unknown patient history and lack of knowledge of circumstances leading to the patient presenting to the emergency department. Relieved upon attention to detail and team experience to gather objective data and possible narratives.
- Used problem solving skills to gather objective and subjective information from stakeholders which allowed my healthcare team members to have an understanding of the patients presenting needs.

Registered Nurse   **NSW Health, Lithgow Hospital**   **2016-2018**

- Collorabed with Emergency, Inpatient and Operating theater 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.   **2022-2023**
- **Certificate III Critical Care Nursing,** University of Tasmania, Hobart.   **2019-2020**
- **Accreditation in Advanced Life Support**, Australian College of Nursing.
- **Certificate in Venepuncture and Pathology Collection,** Tafe NSW.
- **Bachelor of Nursing Science**, University of Wollongong, Wollongong.