Sean McGowan

Software Engineer

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Dev Portfolio: seanmcgowanxdev.com | **Github**: github.com/seanmcgowanx

Skills

React.js | Typescript | Javascript | Node | Java | Python | PostgreSQL | AWS | Docker | Git | Postman | MATLAB

Experience

Gloria Tech, Software Engineer II *San Diego, CA | 05.2023 - Current*

- Developed and maintained SQL queries on AWS RDS (PostgreSQL) for data management and retrieval
- Integrated RESTful APIs with frontend components and streamlined deployment workflows using CI/CD tools like GitHub Actions and Docker
- Audited existing codebases to identify reuse opportunities, defined design tokens, and created scalable patterns aligned with accessibility and usability best practices
- Led the development of a shared React component library using TypeScript, eliminating redundant UI logic across multiple teams and unifying design systems
- Implemented automated testing frameworks (Jest and React Testing Library) to increase code coverage and ensure component reliability across the shared library
- Improved development velocity by 25%, reduced technical debt, and cut frontend maintenance by standardizing components and workflows

LightManufacturing, Manufacturing Engineer *Kailua-Kona, HI | 07.2020 - 03.2023*

- Coordinated with government agencies and research labs to support septic regulation compliance and island waste recycling programs
- Utilized CAD software, simulation tools, Kollmorgen Workbench, and Particle.io to design and validate manufacturing processes and systems
- Led R&D initiatives focused on upgrades to molding systems, heliostat technology, and operational procedures to improve performance and efficiency
- Deployed and commissioned the Solar Rotational Molding System 2 (SRM2) at the new Kailua-Kona facility, enabling advanced manufacturing capabilities

California Polytechnic State University, Applied Researcher *San Luis Obispo, CA | 08.2019 - 07.2020*

- Developed and tested solar cooking systems integrating phase change materials (PCMs) for thermal energy storage, enabling cooking during non-sunny hours
- Conducted electrical testing and characterization of diodes and resistors to ensure reliable performance and optimal thermal regulation in heating elements
- Co-authored peer-reviewed publication demonstrating a 100 W solar panel cooking 5 kg of food efficiently, highlighting solar cooking potential in off-grid environments
- Publication: Phase change thermal storage: Cooking with more power and versatility

Education

California Polytechnic State University | Physics B.A. *San Luis Obispo, CA | 08.2014 - 12.2019*

Relevant Coursework: Physics on the Computer, Calculus IV, Linear Analysis II

- Computational modeling, simulations, matrix multiplications and numerical techniques using MATLAB