Samuel Heath

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EMAIL
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LINKS:
Portfolio: samuelheath.github.io

LinkedIn: samuelheath

GitHub: samuelheath

LANGUAGES
Preferred:
    Python and Java

Experienced:
    C and JavaScript

Familiar:
    C++, R, and Matlab

FRAMEWORKS, LIBRARIES & DEPLOYMENT
Django, React, and Svelte

TensorFlow, SciKit Learn and OpenMP

Git, PostgreSQL, Linux, Docker, AWS, and Heroku

AWARDS & COMPETITIONS
Winner - Perth Fishackathon 2018

Perth Unearthed Hackathon

Western Australia Capture the Flag

National Youth Week Hackathon

INTERESTS:
Tennis, Cycling, Investing, Electronics and Artificial Intelligence

EXPERIENCE

BHP | 2017 – Present
Technical Lead (Python/Django, Svelte, PostgreSQL, AWS, Docker)

Solution Design:
    Created technical designs for features from stakeholder requirements and communicated key considerations and context to developers.

Full Stack Software Developer (Python/Django, Svelte, PostgreSQL, AWS, Docker)

Illuminating User Analytics using Matomo:
    Integrated Matomo analytics to capture detailed usage insights, enabling targeted user interface and experience improvements.

Mentoring and Coaching:
    Responsible for the technical on-boarding of new developers and wrote the team's application documentation and standards.

Improved Build Cycles:
    Sped up the development process by simplifying the team's build cycle to boost reusability of shared steps, and reduced platform deployment times.

Database Query Optimisation:
    Improved the application's responsiveness by optimising critical queries, reducing load times by 40%.

Technology Intern (Python, Flask, Redis)

Document Retrieval Connector:
    Developed a web server to fetch documents for ~100 daily users from an off-premise filesystem via a SOAP API and cached query results for performance.

University of Western Australia Aerospace Team | 2018 – 2019
Founder, Co-Manager & Software Engineer (Arduino, C++, Electronics)

Project Management:
    Lead the team to place 5th in the Australian Universities Rocket Competition, involved securing $20,000 of funding, managing competition deadlines, and manufacturing timelines.

Technical Design:
    Designed and built the team's flight computer, telemetry, and communications systems from the ground up.

Bloom WA | 2017 – 2018
Head of IT (Arduino, Python, Electronics)

Migrated Customer Relations Management (CRM) Tool:
    Led the transition to a third-party CRM to improve the management and interconnectedness of the co-working space.

Technical Support of Members and Infrastructure:
    Maintained and updated critical infrastructure for 40+ daily members and developed interactive displays to foster a community environment.

EDUCATION

University of Western Australia | 2015– 2019

B.Sc. Honours (First Class) Computer Science & Software Engineering:
    GPA: 6.50/7.0   WAM: 83.5%

B.Sc. Engineering Science (Software) and Computer Science:
    GPA: 6.76/7.0   WAM: 82.0%