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## Work Experience

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- **Plenti (Previously RateSetter)** Sydney, Australia  
*Full Stack Software Engineer* Sep. 2020 – Present
  
- **Integrated Research Ltd.** Sydney, Australia  
*DevOps Engineer* Dec. 2019 – Sep. 2020
  - Worked on supporting the deployment and monitoring of a new analytics platform based on AWS serverless technologies
  - Worked with development teams to maintain and improve the AWS deployment process, including Jenkins scripts, infrastructure management with Terraform, and tag/branch management strategies
  - Added structured logging to AWS lambdas written in TypeScript and Python to enable log analysis such as correlation ID tracking with centralised log management
  
- Software Engineer* Jan. 2018 – Nov. 2019
  - Worked new features and bug fixes on the on-premise payments and unified communication monitoring software IR Prognosis, mainly using C++ and C#
  - Worked on replacing the legacy build system with modern CMake which reduced build time for the on-premise software from 10 hours to 1 hour
  - Added support for new versions of Cisco and AudioCodes firmware, including new metrics and call detail record formats in the C++ backend and call quality visualisation in the C# Web GUI
  
- **Carbon Reduction Optimiser (ANU TechLauncher)** Canberra, Australia  
*Intern* Mar. 2017 – Oct. 2017
  - Analysed building energy consumption data and identified several key performance indicators for building energy consumption
  - Produced a model using Python and scikit-learn that can predict building energy consumption and breakdown based on a short survey

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## Certification

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- **AWS Certified Solutions Architect - Associate** Feb. 2020 – Feb. 2023
  - Description: The AWS Certified Solutions Architect - Associate exam is intended for individuals with experience designing distributed applications and systems on the AWS platform.
  - Credential ID: AWS00697844

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## Projects

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- **Concurrent Garbage Collection in Java**

- A more concurrent implementation of the RCImmux reference counting garbage collector for the research JVM JikesRVM
- Reduced pause time introduced with buffered reference counting while maintaining similar throughput by performing part of the stop-the-world phase concurrently

- **Panoramic Stitching**

- Developed a C++ program (based on OpenCV) to produce panoramic images based on videos

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## Education

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- **Australian National University**

*Master of Computing*

- GPA: 6.25/7.0
- Specialisation: Artificial Intelligence

Canberra, Australia

*Feb. 2016 – Nov. 2017*

- **Sun Yat-sen University**

*Bachelor of Science in Computer Science and Technology*

- GPA: 3.7/4.0

Guangzhou, China

*Sep. 2011 – Jul. 2015*

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## Skills

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- **Programming Languages**

- Proficient: C++, TypeScript, Python, C#, Java
- Familiar: Rust, Haskell

- **Software**

- Proficient: Git, Vim, Visual Studio, Jenkins, TeamCity
- Familiar: Ansible, Terraform