

Scott Malone

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Enthusiastic junior software developer eager to contribute to team success through hard work and attention to detail. Motivated to learn, grow and excel as a developer. Takes pride in all work. Curious about new emerging technologies and possibilities.

Education

Diploma in IT: Code, Cloud and Cyber Security
Coder Academy

May 2020 – March 2021

Trainer and Assessor Certificate IV TAE40116
Plenty Training

Jan 2020 – Jun 2020

Certificate III Carpentry
Randwick TAFE

Feb 2010 – Dec 2012

Diploma of Professional Engineering Practice
Bachelor of Engineering (Electrical)
UTS Sydney

Jan 2016 - Dec 2019
Incomplete. Finished all core subjects

Technical Skills

Programming Languages

Python, SQL, Linux, Bash, MATLAB, C

Frameworks

Flask, SQLAlchemy, Bootstrap, Jinja2, Git

Cloud

AWS EC2, S3, RDS

Dev ops

CI/CD github actions, Terraform, IAM roles

Software

Microsoft Office

Software architecture

MVC

Project management

Agile methodology, Trello

Learning Experience

At Coder Academy I was building project based web applications and deploying them on the cloud hosted by AWS. I was exposed to docker and Kubernetes. I built many relational database's using PostgreSQL and I learnt to configure them so they work on an AWS EC2. I built backend CRUD JSON APIs with python and one of its frameworks flask which is an object-orientated framework for building web applications with python. I used SQLAlchemy as an ORM that was connected to the PostgreSQL database. I used MVC architecture so my code could be modularised and easily updated or patched. I used python's testing module unittest to validate the software and I used github's workflows to set up CI/CD pipelines. I used git as the version control and github as the repository. I am confident using CSS, HTML, Django2 and bootstrap to build the front end and full stack web applications which I had to complete for my final project and future projects such as my portfolio which is almost complete. To secure the software I gained experience using Bcrypt for brute force attacks, Marshmello for data validation and JWT tokens for user authorisation and authentication. When using forms and html Flask uses a CSRF token which I have implemented. We spent a lot of time learning about AWS cloud technology. I have used S3 buckets, EC2, RDS and confident with IAM roles. Also I have deployed EC2 with load balancing technology using terraform.

At the University of Technology Sydney I gained experience in building terminal applications in C which involved structures and pointers. Also built an optimisation project in MATLAB using techniques of machine learning. Moreover, programmed a stopwatch into an FPGA kit using truth tables and kmaps built with VHDL. I constantly had to use MATLAB to build simulations and plot graphs for electrical signals before starting labs.

Working experience with transferable skills

Trainer & Assessor (Carpentry Certificate III)
Academique

July 2020 - Current

- Apply strong communication skills when presenting theory to classes of up to 15+ mature age international students
- Demonstrate technical concepts using free body diagrams on white boards
- Design presentations and present

Trainer & Assessor (Carpentry Certificate III)
AHMI

Oct 2019 – Dec 2019

- Apply strong communication skills when presenting theory to classes of up to 30+ mature age international students
- Demonstrate technical concepts using free body diagrams on white boards
- Design quizzes, assignments and real-world application exercises with short notice, based on the presentations supplied. Plan and execute tasks for students so that they

are completed within a deadline. Assess student's competence and ensure they graduate with fully executable skills

Carpenter
Sole Trader

2006 - Current

- Apply strong workplace communication skills with builders (B2B), clients (B2C) and other tradesman to ensure a correct and smooth job. This is done verbally or by reading schematics or drawing diagrams to illustrate an example of the finished product, etc.
- High attention to detail and quality when working on high end multimillion-dollar projects.

Core Skills

Workplace Communication – As a carpenter it was required to read and explain construction plans, problem solve as a team and differentiate language/terminology between customer and builder.

Public Speaking – Working as a carpentry teacher I often speak for 4-5hrs at a time presenting theoretical concepts to a class of 30+ students. I need to be able to articulate my speech in a manner that is clear to understand, while connecting with the audience to make sure I keep their attention. From this experience I have developed a confidence in public speaking.

Project leadership, organisation and management skills – As a leading hand carpenter I managed labourers and other carpenters by dedicating jobs to work efficiently in a sequential method required to build or renovate homes. Moreover, I had to plan ahead by measuring and having tools and materials available on the job when required.

Hobbies and Interests

Rugby Union, Surfing, Camping, Reading, and Theories about the Universe, hanging out with my daughter and family.

Referees

Available upon request.