

Joel Cunningham

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Motivated and detail-oriented software engineering student seeking a Software Engineering Project as part of BSoftEng. Experienced in Java, C#, C++ and React with proficiency in developing web applications, class libraries, and RESTful APIs - as well as working under the scrum framework. Eager to apply my skills and contribute to the success of the project and my own personal development.

Education

Bachelor of Software Engineering (BSoftEng)

RMIT UNIVERSITY

2022 - 2026 (expected)

- GPA: 3.9
- Relevant coursework: Advanced Programming Techniques, Algorithms and Analysis, Computing Theory, Full Stack Development, Operating Systems Principles, Professional Computing Practice, Software Engineering Fundamentals, Software Engineering: Process & Tools

Victorian Certificate of Education

TAYLORS LAKES SECONDARY COLLEGE

2016 - 2021

- GPA: 4.0
- ATAR: 94.5
- Software Development Study Score: 48

Professional Experiences

Associate Software Developer

WEX Inc

February 2025 - Present

- Produced, enhanced, and maintained various web applications, APIs and class libraries
- Spearheaded the implementation of a key feature to deliver value to customers
- Worked directly with stakeholders to refine project requirements, focusing on intuitive user experiences and robust system design
- Enhanced my knowledge and interpersonal skills by mentoring intern developers

Intern Software Developer

WEX Inc

February 2024 - February 2025

- Maintained and enhanced existing web applications and class libraries, adding features, fixing bugs and improving performance
- Gained experience working within an Agile Scrum team, contributing to feature development and sprint goals
- Liaised with stakeholders to gather requirements, design solutions, and implement changes with a focus on user experience

Sales Representative

EMC TECHNOLOGIES

November 2022 - February 2023

- Communicated clearly with customers to understand needs and provide customized solutions
- Liaised with internal stakeholders to prepare detailed and accurate quotations
- Maintained accurate records of quotes
- Responsible for following up with customers to close sales
- Assisted in transitioning smoothly to a new quotation management system

Calibration Technician

EMC TECHNOLOGIES

November 2021 - February 2022

- Calibrated electronic equipment to IEC and ISO standards to ensure accuracy and reliability
- Maintained detailed records of calibration data
- Prepared calibration reports for management
- Reviewed new calibration system to confirm the correctness of data migration

Trainee Test Engineer

EMC TECHNOLOGIES

November 2020 - February 2021

- Performed tests on electronic products to ensure compliance with local and international standards
- Contributed to configuring test setups for a variety of electronic products
- Analysed test data and prepared test reports for management and customers

Technical Skills

I am experienced in, but not limited to, the following languages and technologies

OTHER SPECIFIC TECHNOLOGIES, LIBRARIES, AND FRAMEWORKS ARE DEATILED IN THE PROJECTS SECTION

LANGUAGES: Java, C#, C++, JavaScript, TypeScript, Python, Visual Basic
BACKEND: Spring Boot, Express.js, Javalin, Thymeleaf
FRONTEND: Razor, React, Next.js, CSS, HTML, jQuery, Bootstrap, Knockout.js
TESTING: Robot Framework, JUnit, Valgrind, Vitest, Jest
PROJECT: Maven, Gradle, Makefile, Docker, NuGet, NPM, pip
MISCELLANEOUS: Git, SQL, LaTeX, Jupyter, LC-3

Projects

Boeing Hackathon Project

PARTICIPATED IN A HACKATHON PROJECT LED BY BOEING TO DEVELOP A MODULAR FULL-STACK APPLICATION FOR BROWSING DATA CONSUMED AND INDEXED FROM JSON FILES

Java, Javalin, JDBC, HTML, CSS, SQL, SQLite, Maven, Git

- Worked with a team to design a modular web application
- Developed a user-friendly interface for searching and displaying data ingested from data files
- Implemented a robust system to efficiently consume, store and retrieve data
- Collaborated with team members to integrate the various components of the application

Diamond Price Statistical Modelling

WORKED IN A TEAM TO DEVELOP A PYTHON-BASED STATISTICAL MODELLING PROJECT TO FORECAST THE PRICE OF DIAMONDS BASED ON ATTRIBUTES SUCH AS CARAT, COLOUR, CUT, CLARITY, AND DIMENSIONS

Python, Matplotlib, NumPy, Pandas, Statsmodels, Scikit-Learn, Keras, Git

- Collaborated with team members to analyse data and desgin models
- Contributed to the development of linear regression and neural network models
- Produced reliable results and authored a detailed report on them

CAA Secure Protocol Project

DEVELOPED AND IMPLEMENTED A SECURE PROTOCOL WITH A TEAM FOR TRANSMITTING VALUES ACROSS AN INSECURE CHANNEL USING CRYPTOGRAPHY AND BLOCKCIPHER TECHNIQUES

Python, Java, RSA, Wrieshark, Burp Suite Maven, Git

- Conducted research and analysis on four different CCA secure techniques to determine the best suited
- Developed and implemented a secure protocol for transmitting values across an insecure channel using cryptography and blockcipher techniques in Python and Java
- Successfully encrypted, decrypted, hashed, and verified transmissions between the Java server and Python client

Personal Budgeting System

DEVELOPED A PERSONAL BUDGETING SYSTEM TO ALLOW USERS TO CREATE BUDGETS AND TRACK THEIR INCOMES AND EXPENSES THROUGH CUSTOM CATEGORIES

Java, Javalin, JDBC, HTML, CSS, JavaScript, Thymeleaf, SQL, SQLite, Maven, Git

- Designed and implemented a user-friendly interface for creating and maintaining budgets
- Implemented a flexible system for distributing incomes and expenses into multiple categories and sub-categories, allowing users to easily track their spending and earnings
- Developed a space efficient database schema to store and retrieve financial information

Referees

Referees can be provided upon request