

TOBY MORGAN

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Personal Statement

I am currently available for full time, part time, contract or internship work to initiate my career as a computer scientist. I am applying for the role of a software engineer and I am passionate about learning and gaining work experience in all fields related to computers, especially web/mobile/application full stack or specialised development including frontend, backend, database and testing, game development, and cyber security (cryptography). I hope to get a job in the computer science and software engineering industry as technology, coding and mathematics are strong interests of mine.

I pride myself on being able to work comfortably with all classmates and coworkers and earning their respect. Everybody I have worked with in any team has clearly enjoyed my company and although I am quiet, I am always friendly and kind and speak up when I have something important to say. My biggest strengths are working efficiently and with precision, my aim is always to get my own jobs done to the best standard every time, as well as helping out the team to make sure our work is of high quality inside and out.

Skills and Projects

The main project that I have been involved in as part of my university courses is a year-long software engineering course last year, developing a website in a team of 7 people. I really enjoyed working on a long term project with a team, it was nice getting to know them and being able to pair with them on tasks, as well as talking to them inside of meetings and outside of study.

For developing the website we used the Scrum methodology and made use of sprints to set the pace for our software development. The tools that we used were

- Build tools Gradle and Spring Boot
- Code quality tools SonarQube and SonarLint
- Cucumber acceptance testing and the Mockito mocking and testing framework
- Thymeleaf, HTML, and CSS and JavaScript for the frontend of our application
- JavaScript, Java and gRPC, and MySQL for the backend
- IntelliJ IDE and Git version control
- Communication tools Slack and Zoom

On top of that in my other courses I have gotten familiar with many other languages such as

- Unity and C# and for VR game development
- C++ when creating 3D graphics using the OpenGL pipeline
- TypeScript when learning how to create a web server API, and React for the front end of an auction and bidding website
- SQL when learning about relational databases as well as the calculus, algebra, theory, creation and management of databases
- C programming language when learning programming for microcontrollers
- My strongest language overall is Python as we used it a great deal in developing and studying algorithms and algorithmic complexity, and when learning about formal languages such as DFAs, NFAs and Turing Machines

I have also developed an understanding of advanced mathematics, especially in

mathematical proofs and logic, graph theory and cryptography.

Cryptography is my favourite field of computer science as it has a very real world application that directly helps people. I found it really enjoyable learning how to encrypt and decrypt messages. My long term goal is that I wish to work in cyber security and help to protect sensitive data such as personal information against malicious people as companies collect lots of data and big corporations can be hacked, where their users personal information can be leaked, putting those victims in danger.

Education

Bachelor of Science (Full time), Major in Computer Science, University of Canterbury, 20 Kirkwood Avenue, Upper Riccarton, Christchurch 8041
January 2020 to June 2023

Graduation ceremony will take place on the 29th of August 2023

NCEA level 1, 2 and 3 and University Entrance, Westland High School, 140 Hampden Street, Hokitika 7842

January 2016 to December 2018

- Level 2 and 3 achieved with the General Kaha Akoranga (strength through effort) award
- Level 1 achieved with Merit
- Trades Academy Computer Programming Level 1, 2 and 3
- Mathematics Level 1, 2 and 3

Work History

Housekeeper (Part time), Tasman Holiday Parks, 39 Meadow Street, Papanui, Christchurch 8052

December 2021 to May 2022

- Making beds, cleaning and tidying rooms
- Individual and pair work
- Servicing rooms for customers
- Cleaning communal and motel spaces

Delicatessen Assistant (Part time), New World, 116 Revell Street, Hokitika
July 2019 to December 2019, and December 2020 to February 2021

- Making savouries, making salads and cooking food
- Cleaning down the kitchen ready for the next day
- Serving customers efficiently with friendly service
- Working with others and learning from them

Cleaner (Weekdays, 1.5 hours each day), Hokitika Collision Centre, 63 Kumara Junction Highway, Seaview 7882

October 2016 to December 2019, and December 2020 to February 2021

- Sweeping the workshop
- Cleaning and dusting equipment
- Tidying and upkeeping the aesthetic of the workshop
- Assisting workmates with moving and installing car parts

Dishwasher (Part time), Stella Cafe, 84 Revell Street, Hokitika
December 2018 to April 2019

- Working in a fast environment cleaning, sanitising and putting away dishes
- Helping coworkers with their jobs, such as assisting the cook and heating food from the cabinet
- Running food and coffee and polishing cutlery and glasses in down time
- Cleaning tables, cleaning my station, and cleaning the kitchen

NOTE

This is a public version of my CV. For referees, transcript and my phone number, please contact me via email.