# TOM CASPAR

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## ABOUT

I'm a Software Engineering Graduate of 2021 with a strong level of initiative and keenness to learn and improve. I am very passionate about improving my software knowledge which will in turn improve future products. I enjoy attempting to automate tasks and improving efficiency through software.

## SKILLS

- Programming languages such as C++ and C#
- Sturdy grasp on Object Oriented Programming
- Experience with IoT Development
- Experience with SQL Databases.

- Experience developing WebApps with technologies such as ReactJS and AngularJS
- Project Management using Agile/SCRUM
- Experience with Android Development

## EDUCATION

**2017-2021**
**BACHELOR OF ENGINEERING (HONOURS),** SWINBURNE UNIVERSITY OF TECHNOLOGY
HAWTHORNE, VIC

## PROJECTS

### A* PATHFINDING VISUALISER

The A* Pathfinding Visualiser was created using the ReactJS library. This visualiser can be found at https://tomcaspar.me/visualiser and will solve any possible maze the user can build. There are plans to extend this project in the future, including adding maze generation algorithms, as well as support for other pathfinding algorithms.

### LOW-COST IOT SOLUTION TO MONITOR E-BIKE LOCALISATION

To complete my Software Engineering Capstone project, I worked with a team of 5 other high achieving students to create a low-power, low cost, all-in-one solution to monitor the activity of electronic bikes for various security and maintenance purposes. The solution included a custom front-end web application created using AngularJS. The solution was designed using requirements gathered from meetings with our client and was intended for use by an E-Bike rental service.