

# Swoyen Suwal

📍 Clovelly Park, South Australia, Australia ✉ [swoyenrajsinghsuwal@gmail.com](mailto:swoyenrajsinghsuwal@gmail.com) ☎ 0424076095 🌐 [in/swoyen](https://swoyen.com) 🌐 <https://swoyen.com>

## SUMMARY

A passionate and self-motivated recent software engineering graduate with strong problem-solving and technical skills. Strong knowledge of software development from practical internships and software jobs.

## SKILLS

**Front-End:** ReactJS, VueJS, HTML5/CSS3

**Back-End:** .NET Core, Laravel, MySQL, SQL Server

**Tools/Languages:** Unity, Git, Javascript, Java, C#, Python

## EXPERIENCE

### Software Engineer | Research Assistant

University of South Australia

December 2020 - February 2021, Adelaide, South Australia

- Implemented a Virtual Reality Navigation System in Unity for a 360 Photo scene.
- Developed a 3d Geometry Modelling Tool to create structures in the scene.
- Implement Navigation Techniques for locomotion within the scene.

### Software Engineering | Research Assistant

University of South Australia

March 2020 - December 2020, Adelaide, Australia

- Implemented a Virtual Reality System for Genomic Data Visualisation in Unity using C#.
- Upgraded the existing system to include more hand-based interaction techniques.
- Researched existing 2d Genomic Data Visualisation techniques and ported them to 3d.

### Mixed Reality Developer | Internship

CSIRO Data61

November 2018 - March 2019, Clayton, Victoria

- Implemented novel visualization with point clouds using HoloLens in the Mixed Reality Lab demonstrating spatial alignment.
- Increased interoperability of CSIRO's Workspace platform by integrating HoloLens with the creation of a software plugin.
- Developed software for visualizing the 3D data scanned from a Kinect in the HoloLens.

## PROJECTS

### Bug Tracker | ReactJS, .NET Core, AWS, Azure

- Implemented a full-stack web application for tracking bugs with React Js and Material UI.
- Created an API with .NET Core and SQL Server to be consumed by the front-end.
- Handled authorization and authentication using Microsoft Authentication Library in the front-end and the API.
- API Hosted in Azure, file management done in AWS.

## EDUCATION

### Bachelor of Software Engineering with Honours

University of South Australia, Adelaide • South Australia • 2019 • First Class Honours

## INVOLVEMENT

### Study Support

University of South Australia, Adelaide • Study Help PALS • July 2018 - November 2018

- Provided friendly, informal support to students at drop-in sessions on the campus.
- Guided students to university resources.
- Distributed flyers to the students regarding university programs.

### Student Mentor

University of South Australia, Adelaide • UniMentor • February 2019 - June 2019

- Provided mentorship to new UniSA students.
- Assisted them with their university transitions through regular communication.
- Provided regular updates about the activities in the university.