Kent Rattley

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EDUCATION

The University of Adelaide   2023 - 2025
Bachelor of Computer Science; GPA: 6.67; WAM: 86.75

EXPERIENCE

Rice Electrical Contractors   Nov 2021 - Dec 2022
Office Administrator (Certificate III in Business)

- Managed schedules for workers in order to minimise wait times for customers. Necessitating leadership, problem solving and collaboration with senior members.
- Handled customer queries and communications in regards to work being undertaken, requiring initiative and teamwork to stay on top.
- Learnt and made use of several different company software to process quotes, invoices and bank transactions. In addition, learning and teaching new solutions to meet a large contractors needs.
- Maintained base line inventory levels for vehicles and warehouse with good coordination.
- Constructed multiple websites, including designs, using WordPress. Requiring independence and communication.

PROJECTS

WDC - Volunteer Organisation Management Website (We Org)   March 2024 - June 2024
Vue.js, MySQL, ExpressJs

- Full stack social media website for volunteering organizations
- Allows organisations to create events, posts and customise their page
- Includes google authentication, events and posts, and search functionality.

Minecraft Clone - In Progress   June 2024 - Present
C++, OpenGL, PerlinNoise

- Features perlin noise terrain generation, chunk based rendering and multiple block types including transparent blocks.
- Uses a shader based 3d camera, mesh optimisations and back face culling for performance.

SEP - Maptek Block Compression Project   July 2024 - Nov 2024
C++, PyGame, Agile Development

- Worked in a team of 8 members following Agile development principles and using Github Pages.
- Compressed underground survey data using RLE to achieve high a compression rate and speed.
- Demonstrated a bug in the grading program to achieve a 100% compression rate.

AWARDS

- ADF Long Tan Youth Leadership & Teamwork Awards   2021

COMMUNITY INVOLVEMENT

- Computer Science Club - Member   2023 - Present
- SQUAD - Member   2024 - Present
- RSPxCPC Competitive Programming Competition   Feb 2025

PROGRAMMING SKILLS

- **Languages**: C++, Java, Python, JavaScript, HTML/CSS, Bash
- **Frameworks**: OpenGl, SFML, Pygame, Vue.js, Next.js
- **Developer Tools**: Git/GitHub, Docker, Jupyter Notebook, WSL