CONTACT INFORMATION

Email: jameskarlsson1@gmail.com
Phone: 0499230160

Portfolio: https://jaaamesey.github.io/
GitHub: https://github.com/jaaamesey/

SKILLS

Languages
- Javascript
- Typescript
- HTML
- CSS
- GLSL
- Java
- SQL

Frameworks/Libraries
- React
- Angular
- Redux
- ThreeJS
- NodeJS
- ExpressJS
- ASP.NET
- Spring Boot

Tools
- Git
- Figma
- Android Studio
- Adobe Suite
- Unity
- Blender

Other
- WebGL
- Webpack
- UNIX
- Responsive design
- Database modelling

JAMES KARLSSON

EXPERIENCE

Software Engineer

Airbike Australia / Terrapages, 2019 - present

- Worked on and maintained a web SPA administration console to track and manage fleets of share bikes
  - Improved rendering performance significantly through various windowing and clustering techniques, as well as transitioning the real-time map layers from DOM to WebGL, allowing for millions of points to be rendered at 60fps even on mobile
  - Added functionality for generating reports, processing refunds, and viewing trip details
  - Used by upper management, fleet operations workers, as well as the transport departments of Canberra and Adelaide
  - Adhered strongly to Google's Material Design principles
  - ReactJS, Redux, Mapbox GL, SVG, Google Maps API, ExpressJS, Webpack

- Designed and developed a replacement for the legacy payment system, significantly improving the security and reliability of transactions
  - Spring Boot, Java, PostgreSQL

- Managed virtual machines for both development and production environments, and created a Slack bot to alert errors and infrastructure issues
  - NodeJS, Nginx

Web Developer & Digital Content Editor

P&P Global Expansion Services, 2014 - 2019

- Graphic design, web development, and general IT support
  - Wordpress, Ghost CMS, Adobe Suite
- Developed webpages, logos, infographics, and videos

EDUCATION

University of Technology Sydney

Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice (2018 - present)

- Major: Software
- Sub-major: Computer Graphics
- Expected completion: 2022

Diploma in Languages (2018 - present)

- Major: Japanese
- Expected completion: 2021