Lachlan J. Greve

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Summary

Code, Cloud and Cyber Security bootcamp student with prior work experience as the Corporate Affairs Manager for a peak industry body and as an engineering PhD candidate. A creative and passionate problem solver who is eager to learn and contribute as a part of a team.

Education

Academy of Information Technology, Coder Academy Bootcamp Sydney, Australia
DIPLOMA OF INFORMATION TECHNOLOGY Mar. 2022 (Expected)

- 12-month intensive Code, Cloud & Cyber Security Bootcamp
- Industry-led education model with focus on practical learning
- AWS Certified Cloud Practitioner (Dec. 2021)

RMIT University, Schooler of Engineering Melbourne, Australia
BACHELOR OF ENGINEERING (CHEMICAL ENGINEERING) (HONOURS 1ST CLASS) Nov. 2016

- Cumulative GPA: 3.9/4.0
- Deans' list for academic excellence ('14,'15,'16)
- Summer project scholarship

Projects

ASX_DB https://github.com/l-j-g/ASX_DB-t3a3
A web application that allows users to view and follow financial data from ASX listed companies which is intended to demonstrate web application development capabilities.

- Utilised a full-stack Python development framework that provides a data, application and (minimal) presentation layer using PostgreSQL, Flask and Jinja.
- Full Create, Read, Update and Delete (CRUD) capabilities that allows users to register personal accounts and add or remove information about listed companies to their portfolios of followed companies.
- Imports data from public API's and renders content using templated HTML pages.
- PostgresQL database backend that includes one-to-one, one-to-many and many-to-many relationships.
- Deployed and hosted via Heroku at: https://asx-db.herokuapp.com/

Battleships https://github.com/l-j-g/battleships-t2a2

- A Command Line Interface (CLI) application written in Python that demonstrates development capabilities with control flow, error handling, use of classes and object orientated programming.
- Utilises two-way communication over a network and turn based control flow to enable multiplayer functionality.
- Implemented error handling through input sanitisation and program logic.
- Provided flowchart documentation that details the control flow of the application.

Tpye https://github.com/l-j-g/tpye

- A terminal-based typing application written in Python with variable difficulty, text highlighting and score calculation features.
- Provided detailed documentation including a software development plan, control flow diagram and testing.
- Utilised the Asana project management platform to prioritise tasks, set deadlines and track the development of the application.

Portfolio https://github.com/l-j-g/l-j-g.github.io

- Designed, developed, and deployed a portfolio website to demonstrate basic HTML and CSS development capabilities.
- Utilised semantic HTML elements and attributes to add meaning and increase accessibility of the site.
- Created a responsive layout for each page that all components are displayed correctly for desktop, mobile and tablet viewport widths.
- Implemented Subresource Integrity (SRI) to enable browsers to verify that resources are delivered without unexpected manipulation.
- Deployed and hosted via Github Pages at: https://l-j-g.github.io/

Experience

Lighting Council Australia Melbourne, Australia
CORPORATE AFFAIRS MANAGER / CONSULTANT Apr. 2019 – Current

- Corporate Affairs Manager for Australia's lighting industry peak body, representing over 100 manufacturers and distributors. A diverse role that embodied technical, advocacy and administrative responsibilities.
- Provided technical advice and fee-for-service consultation regarding compliance to Australian Standards and regulations. Contributed engineering knowledge by participating in the development of new and revised Standards whilst sitting on four Standards Australia technical committees.
- Established close relationships with industry executives, parliamentarians, and public servants to advocate for policy changes that benefited the lighting industry. Contributed to a team effort which prevented the introduction of regulation which would have cost the industry $480 million in additional compliance cost over a 10-year period.
- Prepared agendas, discussion papers and minutes for board meetings and technical working groups. Established a human centric lighting working group which brought together academics and leading industry representatives to fund research and further advance novel industry sectors in Australia.
- Organised promotional and educational events and materials to help raise funding and public profile of the company. Assisted in organising the National Awards for Excellence in Lighting, a 330-guest gala dinner event, overseeing entertainment, sales, promotion, and sponsorship.

RMIT University Melbourne, Australia
PHD CANDIDATE Mar. 2017 – Dec. 2018

- Implemented an innovative design of a custom sparging filter system capable of controlled transport of chemical vapours used for measurements, calibration, and verification (via GC-FID and HPLC) of gas sensing materials.
- Developed circuits, programmed micro-controllers, and wrote data acquisition programs in JavaScript, C++ and MATLAB for time critical collection of gas sensor calibration data.
- Applied machine learning algorithms to preform dimension reduction of transient sensor responses and built a predictive model capable of quantification and classification of analytes from multi-component mixtures.
- Provided fundamental research which led to a patented invention and for the formation of university spin-out company - Atmo Bioscience.
- Received training for the operation of specialist analytical and fabrication equipment including reticulated gas, automated flow meters, reactive ion etching, photolithography, gas chromatography and electron microscopy.

Activities & Volunteering

Student-staff Consultative Committee (S.S.C.C) Melbourne, Australia
STUDENT REPRESENTATIVE Mar. 2014 – Dec 2016

- Discussed curriculum-related issues and collaborated with staff to help improve course delivery and structure.

Association of Chemical Engineering Students (A.C.E.S) Melbourne, Australia
SECRETARY & 3RD YEAR COMMITTEE MEMBER Apr. 2014 – Dec 2016

- Organised social and professional development events and provided academic support.

Referees

Mr. Richard Mulcahy
Chief Executive Officer, Lighting Council Australia
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Dr. Kyle Berean
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