

# Lucas Su

lijie.su93@gmail.com | Adelaide SA | 0466 351 350 | [linkedln.com/in/lucassudev/](https://lucassu.vercel.app)  
<https://lucassul.github.io/my-personal-website/>

## PERSONAL STATEMENT

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Prospective Master of Computing and Innovation graduate with high academic accolades, expected to graduate in July 2024. Previously, I have over six years of experience in the urban development and consultancy field, including a notable two-year tenure as a Project Manager.

Passionate about leveraging technology to empower traditional businesses and enhance daily life. With a background in software development and consultancy, I aim to offer a distinctive blend of skills driven by curiosity, rapid learning, and a steadfast commitment to making a positive impact on society.

## KEY SKILLS

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- **Full-Stack Development:** Proficient in Java, Python, HTML, JavaScript, CSS. Skilled in Node.js, Express.js, MongoDB, PostgreSQL, and MySQL. Capable of building RESTful APIs and conducting testing using Postman. Experienced in developing user-friendly, responsive, and visually appealing Next.js Typescript SaaS applications using Shadcn, Headless UI, Tailwind, and Bootstrap, alongside technologies like Stripe and Clerk. Proficient in CI/CD with Vercel/GitHub Actions & Pages, and skilled in Agile team collaboration and version control using Git and Bitbucket.
- **Data Analysis:** Proficient in Anaconda and Jupyter Notebook, adeptly utilising NumPy, pandas, and seaborn for data filtering, analysis, and visualisation to extract actionable insights from large datasets. Experienced in conducting predictive data analysis with the scikit-learn library.
- **Urban Planning & Consulting:** Collaborated with construction contractors, real estate developers, and governments to develop high-quality master plans and urban designs focusing on zoning, tourism planning and transportation.
- **Engineering Drawing & Modelling:** Proficient in creating engineering-style diagrams using AutoCAD within urban design & planning scenarios. Experienced in creating detailed 3D digital models in SketchUp and rendering in Lumion with detailed environment design.
- **Graphic Design:** Skilled in Adobe Photoshop, Illustrator and InDesign for creating informative and beautiful analysis diagrams and layout. Proficient in Canva, PowerPoint, and Markdown for high-quality report design.

## PROJECTS

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**AI Form Builder** | Next.JS, Google Gemini API, Tailwind, PostgreSQL | <https://lucassu-ai-form-builder.vercel.app>

- Developed a website utilizing the Google Gemini API to dynamically generate forms based on user input. Users can customize forms, share them with target audiences, and export responses directly from their dashboard.

**CaseCobra** | Next.JS, Tailwind, TypeScript, MongoDB, Stripe | <https://casecobra-lucassu.vercel.app>

- Developed a shopping site integrating Stripe, designed for customers to customize their phone cases by uploading images and choosing from various colours and materials. Merchants can view sales data in the dashboard.

**AI-Lexicon Community** | React, PostgreSQL-Supabase | <https://lucassul.github.io/ai-lexicon-community>

- Created a platform where users can view, search, post, and vote on AI terms and language-based translations. Implemented user authentication and credit system, form validation, content sorting, and site search functionalities.

**Personal Website** | React, Vite, Bootstrap, dev.to-API | <https://lucassul.github.io/my-personal-website>

- Built a fully responsive one-page personal website built using React and Bootstrap displaying my personal statement, timeline of experiences, downloadable resources section and more.

**Shortest Path Algorithm for Material Transportation** | Java, MySQL

- Developed a Java terminal application using MySQL to calculate and return multiple shortest paths for an engineering company, optimizing material transport costs with multiple origins and destinations.

## WORK EXPERIENCE

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### Urban Planner / Project Manager | Atkins, Asia Pacific

July 2016 – July 2022 (6 years)

- Participated in over 20 top-level complex urban development projects, managing three as Project Manager. One project achieved the highest profit margin of the year, reaching an impressive 45%.
- As the youngest Project Manager, led and delivered a headquarters planning and consulting project for a Global Fortune 500 insurance company, earning the client's praise.
- Introduced innovative intelligent algorithm assistance within modelling software, doubling the design and decision-making speed for floor area ratio modification process.
- Working with multiple departments within the company or from the third parties, including construction teams, water environment specialists and industry consulting teams, to solve complex problems and deliver the best possible outcomes for our clients. Mentored three interns, facilitating their transition to formal employment.
- Maintained daily client communication to ensure alignment of design requirements and project timelines. Wrote bid proposals for prospective projects. Compiled and delivered compelling presentation reports, saving time and costs by avoiding third-party contracts, potentially increasing total margins by 10%.

### Project Planner Intern | Atkins Asia Pacific

November 2015 – February 2016 (3 months)

- Responsible for urban planning technical tasks within an industry planning consulting project, which ultimately triumphed over competitors from Surbana Jurong Group and Boston Consulting Group (BCG).

## VOLUNTEER EXPERIENCE

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### Graphic Designer Volunteer | Don Dunstan Foundation, SA

March 2024 – May-2024 (2 months)

- Collaborated with the Don Dunstan Foundation to organize, compile, and format the 2023 Annual Report. Worked closely with clients to understand and translate design requirements into creative and impactful visual solutions.

## EDUCATION

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### Master of Computing and Innovation | University of Adelaide, SA

July 2022 - July 2024 (2 years)

GPA: 6.5/7.0 (WAM: 87/100), GPA for all computer science-related courses: 6.75 (WAM: 91)

- Awarded 30% Global Citizen Scholarship (highest standard). Team-lead in multiple course-based projects.
- Highlighted courses: Artificial Intelligence, Mining Big Data, Algorithms and Data Structure Analysis, Specialised Programming (puzzle-solving), Operation System, Computer Networks & Applications

### B.Eng. in Urban Planning | Beijing University of Civil Engineering and Architecture, Beijing China

September 2011 - July 2016 (5 years)

WAM: 86/100

- Achievements: TOTO Environmental Fund Winner, Cadre of Youth Volunteer Association Member, Committee Member in Charge of Studies, Excellence Award for Beijing Historic District Research 2013, Team lead in multiple study and research projects.

## REFEREES

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### Matthias Bauer, Technical Director at Jacobs, Former Technical Director at Atkins.

Urban Design & Planning Expert; LEED AP ND, ISOCARP

LinkedIn: <https://www.linkedin.com/in/bauermatthiasurbandesign/>

Email: bauermatthias16@yahoo.com

### Dr Bill C. Huang, Vice President at T.Y. Lin International, Former Director at Atkins.

PhD, CEng, MCIQB, MEng, MBCS, CITP.

LinkedIn: <https://www.linkedin.com/in/billconghuang/>

Email: huangcongbill@tylin.com.cn