ELLIOT KOH

Adelaide, SA, Australia

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Passionate about harnessing technology for social good, I aim to blend my software engineering expertise with creativity to develop innovative solutions that inspire change and empower communities.

EDUCATION

Bachelor of Computer Science (Advanced), The University of Adelaide   *Expected Graduation 2025*

- **Relevant Coursework:** Algorithm Design & Data Structures, Object-Oriented Programming, Systems Programming, Computer Systems, Web & Database Computing, Cybersecurity Fundamentals, Advanced Topics in Computer Science

WORK EXPERIENCE

Associate Software Engineer – Altitutor   *Mar 2023 – Present*

- Engineered comprehensive backend solutions using JavaScript, Python, and PHP, enhancing system efficiency and data accessibility for a React-based interface integrated with WordPress.
- Designed and managed the Altitutor database utilising Obsidian with Markdown and custom functions, streamlining the organisation of students, classes, tutors, and schedules.
- Pioneered the development of e-learning tools and a mobile application using Swift for iOS and React for web front-end, coupled with Python for backend logic, significantly improving educational engagement.

Co-Creator & Content Developer – CodeKage   *Dec 2023 – Present*

- Co-founded and grew online presence CodeKage into a leading coding platform with 500,000+ impressions, using HTML, React, and TailwindCSS for engaging tutorial design.
- Boosted online audience engagement and education through strategic content creation (C++, JavaScript) and social media optimisation.
- Executed strategic social media and content optimisation, significantly boosting engagement and fostering high-quality, tech-focused community interaction.

Student Work Experience – Australian Institute for Machine Learning (AIML)   *Jun 2021 – Jul 2021*

- Collaborated on a Python-based project under Dr. Latif's mentorship, developing a solution to a complex problem, demonstrating coding proficiency and problem-solving skills.
- Gained insight into AI and machine learning applications, solidifying my passion for Computer Science and driving my ambition to innovate in software engineering and high-frequency trading (HFT) sectors.

PROJECTS

Altitutor UCAT Program Development   *Apr 2023 – Present*

- Led a team in designing and implementing innovative features for an online UCAT training program, utilising tkinter for Python to develop a user-friendly GUI that enables non-programmers to easily process documents into CSVs, thereby enhancing test preparation (Python, React, PHP).

Autoencoder-Based Writer Identification   *Aug 2023 – Dec 2023*

- Developed an advanced writer identification system using autoencoders, significantly improving the accuracy of handwriting analysis by integrating deep learning techniques (Python, TensorFlow, Keras).

COMMUNITY INVOLVEMENT

President – University of Adelaide Mechanical Keyboard Club   *Jul 2022 – Present*

- Founded the club and significantly grew its membership by organising community events and workshops, showcasing leadership and engagement. Additionally, developed the club's website using React, enhancing our digital presence and accessibility for members.

TECHNICAL SKILLS

Proficient	C++, Python (Pandas, PyTorch, TensorFlow, Keras), JavaScript, React (Gatsby.js, Next.js), HTML, GraphQL, SQL