

CATHERINE MAI_

COMPUTER SCIENCE / MEDIA ARTS STUDENT

/ ABOUT ME

I love solving puzzles and creating things – that's why I'm a Computer Science / Media Arts student. I'm interested in software engineering, UI/UX design, and cybersecurity.

/ TECHNICAL SKILLS

SOFTWARE ENGINEERING

Back-end development

• Java, Python, C, Perl, Bash / Shell

Front-end development

 React / React Native, JavaScript, HTML, CSS

UI / UX design

• Figma

SECURITY ENGINEERING

Digital forensics

• Autopsy, Volatility, Wireshark

Web application testing

• Auth, XSS, SQLi, LFI, SSRF

Binary exploitation & reverse engineering

• IDA, pwntools, pwndbg

/ EDUCATION

UNIVERSITY OF NEW SOUTH WALES

B. Computer Science / Media Arts (Security Engineering) | Grad: 2024

/ CONTACT

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G: github.com/stickpenguin

/ WORK EXPERIENCE

AUDIOVISUAL TECHNICIAN & EVENT SUPERVISOR

UNSW Venues & Events • 2023 - Current

- Coordinated with clients to deliver 28 events to their specifications
- Actualised audiovisual, lighting, and staging requirements of shows and conferences in cooperation with in-house and client technicians
- Supervised the running of events, resolving issues promptly and communicatively to ensure smooth delivery and client satisfaction

THEATRICAL LIGHTING DESIGNER, TECHNICIAN & CREATIVE

Freelance • 2017 - Current

- Collaborated with a diverse range of theatre-makers to deliver 26 productions working across technical, creative, and performance roles
- Designed and implemented the theatrical lighting for 15 productions
- Co-directed the technical development and installation of a largescale show, consisting of lighting, sound, and staging requirements
- Creative roles have included performer, music arranger, and costumer

FRONT-END WEB DEVELOPER & UI / UX DESIGNER

SECedu • 2020

- Designed the UI / UX of a desktop web app for a cybersecurity project led by Professor Richard Buckland which was pilot tested by 50 users
- Implemented my front-end designs in JavaScript, HTML, and CSS
- Collaborated with a multidisciplinary team to determine project requirements, revise designs and integrate the front and back ends

/ PROJECTS

TABLETOP MEETUP UI / UX • Figma • React Native • Front-end

- Designed the UI / UX of an original mobile app from scratch that facilitated gaming meetups, in collaboration with 4 team members
- Developed iterative prototypes using Figma and React Native
- Conducted comprehensive research interviews and usability tests with gaming industry professionals and targeted user groups

CIRCEX React Native • Front-end • Mobile • UI / UX

- Implemented interfaces for a React Native mobile app that provided an e-commerce platform to op-shops, based on wireframes
- Implemented 3 features that streamlined the UX by overhauling the flows of the ordering and product listing processes, reducing loading times, and improving the feedback provided to users

PERSONAL WEBSITE HTML • CSS • Front-end • Desktop

 Designed and implemented a responsive website showcasing a selection of my projects using HTML and CSS

/ EXTRACURRICULAR

BSIDES CANBERRA CYBERSECURITY CONFERENCE 2021

• Attended with the UNSW Security Society and networked with industry professionals to learn about working in cybersecurity

UNSW SECURITY SOCIETY

• Competed in CTFs and attended workshops on cybersecurity topics

