Mitchell Henry

devmitch.com | mitchell.henry334@gmail.com | linkedin.com/in/mitchell-henry334 | github.com/devmitch

EDUCATION

University of New South Wales   Sydney, Australia
Bachelor of Computer Science - 86 WAM (High Distinction)   *Feb. 2019 – May 2022*

EXPERIENCE

Bluesat Backend Web Developer   October 2020 – Present
UNSW   *Sydney, Australia*

- Developed a full-stack web application to replace an old blogging system for the society
- Authenticated users through Google's Identity Toolkit and FirebaseDB
- Developed the backend in Flask and the frontend using ReactJS

High School Mathematics Tutor   January 2020 – Present
Caringbah Learning Centre   *Sydney, Australia*

- Tutored all levels of high school mathematics
- Communicated ideas and catered teaching to several students of different ability levels
- Organised study schedules and prepared students for exams (as well as HSC exams)

PROJECTS

bencodeLib | *C, Git*

- Developed a fully implemented bencode parser
- A JSON-like encoding that is used to communicate torrent and peer data in the BitTorrent Protocol
- Integral part of a larger, ongoing BitTorrent client implementation

Cutelink.me | *NodeJS/ExpressJS, MongoDB, Bootstrap*

- Developed and deployed a url-shortener service, live at cutelink.me
- Dynamic frontend supported by bootstrap
- Key-URL mapping implemented with MongoDB collections served by ExpressJS JSON API

Authentication Microservice | *NodeJS/ExpressJS, Redis*

- Microservice API to handle opaque token/session authentication and distribution
- API routes to authenticate users and generate tokens, as well as to verify or revoke tokens
- Token-User mapping implemented with Redis

TicTacToe AI | *Java*

- TicTacToe game that supports both human players and a basic AI
- AI implemented using minimax algorithm to search all possible scenarios and choose optimally

TECHNICAL SKILLS

Languages: Python, Java, C, SQL (Postgres), JavaScript
Frameworks: Node.js/Express.js, Flask, Pytest
Skills: Databases, Algorithms, APIs, Linux, Git