Han Yu Foong

669-997-1537 | hanyufoong@gmail.com | linkedin.com/in/han-yu-foong-670825254/ | github.com/IntelAntique

Education

University of Wisconsin - Madison Madison, WI

Bachelor of Science, Computer Science, Software Engineering *Expected December 2024*

- Relevant Coursework: Elementary Matrix & Linear Algebra, Discrete Mathematics, Calculus, Object Oriented Design, Data Structures, Computer Engineering, Algorithms, Machine Organization & Programming, Artificial Intelligence, Machine Learning

Technical Skills

Languages: C, C++, Python, Java, LaTeX, Rust, HTML, CSS, JavaScript, MySQL
Frameworks: React, Flask, Node, Pytorch
Developer Tools: pip, Maven, npm, Slack, Git, WinSCP, Microsoft Office, MongoDB, Docker
Libraries: SQLAlchemy, NumPy, Matplotlib, Pandas, torch, TensorFlow, scikit-learn, Keras, MAST-ML, Bootstrap
IDE: Android Studio, Visual Studio Code , Arduino, Python IDLE, Jupyter Notebooks
Circuits: DEVKIT V1 ESP32-WROOM, Raspberry Pi Pico, Tello Drone

Experience

Software Engineer Intern February 2024 - Present

DAuth Network | tonstash.xyz *San Francisco, CA*

- Implemented 5 key application features, including database management and user authentication
- Switched synchronous database operations to asynchronous operations, reducing latency by 50%
- Reduced deployment time by 40% by utilizing Docker to handle the deployment of the application

Undergraduate Researcher September 2023 - Present

SkunkWorks Informatics *Madison, WI*

- Worked with a team of 4 peer researchers and planned weekly meetings to discuss progress and findings
- Optimized the AI model to produce 200% more accurate results by studying 8 ChatGPT's hyperparameters
- Validated efficiently 250 materials a month by developing an algorithm, a 50% increase in efficiency

Junior Research Assistant August 2023 - Present

MAD Security & Privacy Research Group | github.com/IntelAntique/BLEsensor *Madison, WI*

- Developed 3 key features, such as a data transfer, and user interface with a less than 1 second response time
- Detected up to 10 different types of spyware devices by developing a mobile application capable
- Increased data transfer efficiency by an estimated 30% by creating a mobile application-ESP32 bridge

Community & Leadership

Tech Support Volunteer January 2024 - Present

Madison Tech Clinic *Madison, WI*

- Analyzed spyware on domestic abuse victims, and identified 20 potential spyware applications
- Worked with a team of 14 peer volunteers in service to clients by aiding in technical support

Junior Programmer September 2023 - October 2023

Wisconsin Quantum Computing Club *Madison, WI*

- Collaborated with a team total of 3 programmers, and developed Quantum Circuitry in 6 hours
- Participated in Quantum Computing Hackathon hosted with **IBM** [25 Oct '23]

Projects

EpiPal | *React Native, Node, Express.js, MySQL* | devpost.com/software/epilocator November 2023

- Colloborated with a team of 3 and developed 3 key features including, a login page, map UI, and database
- Designed a system capable of alerting nearby users within a 500-meter radius in under 5 seconds
- Partook in **MadHacks 2023**, Achieved $\mathbf{2}^{nd}$ Place out of 54 Projects

Personal Website | *React, BootStrap* | intelantique.github.io May 2023

- Designed web application with the React.js framework
- Optimized site load time, achieving a less than 2-second average load speed across all pages