Pakon Pongpeauk

📞 (571) 461-4321 | ✉ ppongpea@gmu.edu | 🔗 pete-pongpeauk | ⭘ ppongpeauk | U.S. Citizen

Education

George Mason University, Fairfax, Virginia   *August 2022 - Present*
Computer Science, B.S., Major GPA: 4.0   Expected Graduation: May 2026
Pertient Coursework: Python, Java, Object-Oriented Programming

Experience

Johns Hopkins University Applied Physics Laboratory - Laurel, Maryland   *June 2021 – April 2022*
Nation's largest research center for universities assisting the U.S. government in the development of technology and national priorities.

ASPIRE High School Intern, Space Exploration Sector
- Written and researched artificial intelligence systems, leveraging weather satellite data to predict disease outbreaks ahead of time.
- Actively collaborated with a dynamic team of three people to process large datasets and train a neural network using the TensorFlow library.

Projects

PeerPort – Java, TypeScript   *April 2023 - Present*
- Built PeerPort, an online platform enabling college students to trade used goods and services exclusively within their campuses.
- Developed backend functionality using PostgreSQL, Java (Gradle), and REST APIs using Spring Framework, ensuring seamless data management.
- Orchestrated frontend implementation with Next.js React, delivering a dynamic and responsive user interface.

Gesture Predictions – Python   *July 2022*
- Developed a machine learning model using TensorFlow to classify and predict hand gestures during greetings.

XCS Management Platform – TypeScript   *August 2021 – Present*
- Built a full-stack application that allows users to configure discretionary access control for card reader access to office buildings within the Roblox game platform.
- Developed REST APIs leveraging the Express library for seamless data management.
- Engineered the front-end using Next.js React and Chakra UI for a modern user interface.
- Implemented MongoDB as the backend database to ensure robust data management.
- Utilized the Firebase app development platform to manage user authentication.

Skills

Programming Languages : Python, Java, C++, C, JavaScript/TypeScript, Lua
Frameworks: Node.js, React, React Native, Bootstrap, Spring Boot, Django, Flask, OpenCV, TensorFlow, PyTorch
Technologies : Linux, Git/GitHub, Docker, MongoDB, CI/CD, Amazon Web Services (AWS), Google Cloud Platform (GCP)
Hardware : Raspberry Pi, Arduino
Languages: English (native), French (conversational)

Activities

GMU Association for Computing Machinery (ACM)   *May 2023 – Present*
- Engaged member of the ACM, participating in discussions, workshops, and events focused on advancing computer science knowledge and applications.
- Collaborated with fellow enthusiasts on solving competitive and dynamic programming objectives.