Katrina Rachel Panlilio Viray

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Education

University of Houston

Houston, TX

Bachelor of Science in Computer Engineering, Minor in Mathematics - GPA: 3.8/4.0

May 2025

Experience

Microsoft

Redmond, WA

August 2025 - Present

Software Engineer - Availability Platform Team

• Technologies: C#, Moq, PowerShell, KQL, Azure, JSON

Software Engineer building tools to improve Azure's reliability for 700M+ customers

Snap Inc.Software Engineer Intern - Ad Data Infra Team

Santa Monica, CA

May 2025 - August 2025

• Technologies: Java, SQL, Google Cloud Platform

- Created a Java Dataflow to convert Bigtable ad logs into BigQuery tables for low-latency access by 50+ engineers
- Built a Looker dashboard with custom SQL queries for ad insights, saving engineers 3+ hours per query
- · Integrated BigQuery with an internal AI chatbot that converts natural language into SQL for instant ad insights

Microsoft Redmond, WA

Software Engineer Intern - Availability Platform Team

May 2024 - August 2024

- Technologies: C#, Moq, PowerShell, KQL, Azure, JSON
- Established the first real time connection for Azure's repair and root cause analysis services for 200K+ customers
- Reduced VM downtime by 10+ minutes by using real-time root cause data of VM failures to fast track repairs in C#
- Improved root cause clarity for VM failures by querying fault info with KQL, updating 30% of Kusto's records
- Built an optimized decision tree for root causes, accelerating VM failure diagnosis by 50% for stop and destroy tasks

NASA Houston, TX

Software Engineer Intern - Avionics Systems Team

January 2023 - May 2023

- Technologies: Python, Embedded C
- Created a Python GUI for a pick-and-place machine, boosting data entry efficiency by 70% by generating databases
- Developed a PID microcontroller with C programming for stable and efficient temperature regulation in radiators

Projects

Maze Navigating Robot | Embedded C

- Built a maze-navigating robot, integrating embedded systems, and placed 4th out of 24 robots in a timed race
- Developed ADC and UART communication systems for real-time data processing of PID metrics with Bluetooth
- Integrated distance sensors and PWM motor control for precise line detection and navigation in dynamic mazes

Neural Kinetic Sculpture | Python, React Native, Tailwind CSS

- Created an interactive EEG-driven sculpture for an audience of 1,000+, blending technology and art in dance shows
- Processed real-time EEG data with Python to isolate alpha waves, enabling dynamic artistic imagery from dancers
- Created a React Native mobile app to map the signals to movement, sound, or light, and configure EEG parameters

Leadership

Career Fair Committee Chair

Houston, TX

Society of Women Engineers

December 2021 - May 2023

• Led a team of 15+ to plan professional development events, connecting over 140+ companies with 2000+ students

Technical Skills

Languages: Python, C++, C#, C, Java, JavaScript, HTML, CSS, PowerShell, KQL, SQL, Assembly, MATLAB

Frameworks & Libraries: React.js, Express.js, Node.js, Tailwind CSS, JSON Developer Tools: Git, GitHub, SVN, MongoDB, Azure, Postman, Vercel, Figma