MELVIN CABRERA

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EDUCATION

Illinois Institute of Technology – Chicago, IL   Expected Graduation: December 2025
Bachelor of Science in Computer Science   **GPA: 3.36 / 4.00**
- Relevant Coursework: Systems Programming, Parallel & Distributed Computing, Distributed Systems, Database Organization, Software Engineering, Mobile Application Development

Wilbur Wright College – Chicago, IL   Graduation: May 2023
Associate of Engineering Science   **GPA: 3.77 / 4.00**

SKILLS

Programming Languages: C/C++, Python, Dart, JavaScript, Racket, HTML/CSS
Framework/Tools: AWS EC2, Kafka, Flutter, React, Node.js, MySQL, Linux, Git, Excel
Development Environments: Visual Studio, Android Studio

EXPERIENCE

Northrop Grumman – Rolling Meadows, IL   May – Jul 2024
Software Engineering Intern
- Contributed to the design and initial implementation of a bridging solution for proxy and non-proxy communications across test system networks, aiming to optimize feedback for end-to-end system testing
- Assisted in efforts to improve customer transitions from legacy networks to updated systems, focusing on enhancing efficiency and usability

Biophotonics Imaging Laboratory – Champaign, IL   May – Jul 2023
Summer Research Intern
- Developed specialized MATLAB programs to analyze intricate biofilm dynamics, including factors such as attenuation, thickness, and void size

Discovery Partners Institute – Chicago, IL   Oct 2022 – Feb 2023
Intern and Near-Peer Mentor
- Supported high school students across 16 sessions, helping them understand concepts in web development, machine learning, and data analysis through hands-on guidance and mentorship

PROJECTS

Full Stack Event Management System, Academic Project   Feb – May 2024
- Developed a responsive web application using Node.js, Express.js, and React, with a MySQL database to manage event creation, ticketing, and user authentication
- Focused on user experience by implementing efficient data handling, seamless navigation, and modern front-end design through iterative testing and feedback.

Stock Exploration and Journaling App, Personal Project   Nov – Dec 2024
- Developed an Android application using Flutter and Dart to enable real-time stock/crypto tracking, a favorites dashboard, and personalized journaling for investment insights
- Integrated RESTful APIs (Alpha Vantage) to dynamically retrieve stock and cryptocurrency data, and implemented state management using Provider for efficient UI updates
- Utilized SQLite database for secure and persistent storage of user notes, and performed rigorous unit, widget, and integration testing to ensure app reliability and functionality

LEADERSHIP

Vice President, Association of Computing Machinery, Wright College   Aug 2022 – May 2023
- Led and managed the Wilbur Wright ACM chapter, fostering a collaborative student community while organizing impactful workshops and seminars to enhance technical skills and engagement