Andrew Bahsoun

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About Me

Senior Computer Science student at Chapman University with an interest in Physics. I am curious, dedicated to learning, and enjoy problem-solving. My current research is on fairness in AI Systems with Dr. Yuxin Wen. I am advanced in **C++**, **Python**, and **Java.**

Education

Chapman University *Aug 2022 – May 2027*
MS in Electrical Engineering and Computer Science

- **Coursework:** Data Structures, Scientific Computing, Computer Networks, Software Engineering Lifecycle and Testing

Experience

Software Engineer Intern *Irvine, CA*
Ingram Micro *June 2025 – Present*

- Contributed in an **Agile** Software Development Lifecycle utilizing **JUnit** to follow Test Driven Development.
- Redesigned xVantage discounts to allow for Order-Based Discounts for vendors. Reconfigured **open-API** schemas to allow for a new data flow between the service and engine layers.
- Optimized **SQL** queries to follow production requirements. Refactored legacy code to remove unnecessary logic, updated deprecated **Java** items.
- Developing a side-project with fellow interns to create an internal AI Agent for employee inquries.

Research Assistant *Orange, CA*
Chapman University *August 2024 – Present*

- Currently creating a multi-modality model to predict Length of Stay for hospital patients. Fusing time-series EHR data with text-based notes using PyTorch. Using a Lagrangian Constraint based In-Processing method to decrease bias in demographic groups.
- FIRE and Robert A. Day Excellence Grant Recipient [Winning Proposal]

Publications

Inpatient Length of Stay and Mortality Prediction Utilizing Clinical Time Series Data — 10.1109/ACCESS.2025.3563199 April 2025

Projects

AI Handwashing Analyzer *[GitHub]*

- Developed a hand-washing habit recognition tool with LayerJot using **Python**, **Tensorflow**, and **OpenCV**. I spearheaded a 6-person team. I then revised the model for better accuracy in a solo project.
- Overall Winner of GCI Showcase, competing against 53 other teams. Grand Prize Winner. [Article]

Book Vocab Analyzer *[GitHub]*

- Developed a tool to study hard vocabulary in 75,000+ online ebooks. Used the Project Gutenberg API to pull book text and Python **NLTK** to analyze Vocab words. Frontend in **AngularJS**.

Technologies

Languages: Java, C++, C, SQL, Python, JavaScript, HTML/CSS

Technologies: Maven, JUnit, Git, AngularJS, Unix/Linux, NLP, Docker, Rest API, PyTorch, Tensorflow

Leadership

Camp Kesem: Volunteer camp counselor for local children affected by a parents cancer.

Chapman CARES: I help organize and set up events on campus that create awareness for violence on campus, and provide support for those affected. Helped train University Resident Advisors on best practices.