

CEDRIC LLEYTON CHUA

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EDUCATION

University of Pennsylvania | Philadelphia, PA

May 2024

Bachelor of Science in Engineering, Computer Science

ACT: 35 | **GRE:** 327 (169 Quantitative; 158 Verbal)

Relevant Coursework: Interactive Fiction & Text Generation; Mobile/IoT Computing; Machine Learning; Artificial Intelligence; Computer Operating Systems; Big Data Analytics; Database & Information Systems

PROFESSIONAL EXPERIENCE

Chinabank Capital

Manila, Philippines

Software Engineer Intern

June 2023–August 2023

- Created a Python script to automate creation of a fund's portfolio monitoring and value-at-risk dashboard, including calculations for Realized P&L, Sharpe ratio and Information Ratio.
- Utilized BeautifulSoup to web scrape data from the Philippine Stock Exchange for analyzing fund alpha in portfolio performance analysis.
- Developed an interface to collate deal and client information and transaction documentation on JavaScript.

Axiado Corporation

San Jose, United States

Machine Learning Intern

June 2022–November 2022

- Programmed BMP280 Temperature Sensor to collect data and output CSV file using C and Python.
- Developed TensorFlow LSTM model for voltage and internal clock anomaly detection as well as detection and classification of distributed denial of service-(DDoS) attacks on a Raspberry Pi.
- Pruned, clustered, quantized (both quantization aware training and post quantization training) and vela compiled LSTM models for deployment on Ethos U-65 NPU.

Converge Solutions ICT Inc.

Manila, Philippines

Software Engineer Intern

May 2021–July 2021

- Designed and deployed multi-node Kubernetes cluster in on-premises environment.
- Deployed YAML configuration files using NGINX to manage and serve applications on a cluster.
- Researched and presented Kubernetes Proof of Concept report to the DevOps team.

PROJECTS AND EXTRA-CURRICULAR EXPERIENCE

University of Pennsylvania

Philadelphia, United States

Group Leader

September 2023–May 2024

- Developed a social networking site on Node.js and EJS to connect Penn students with tailored opportunities, utilizing Axios for backend calls and DynamoDB for data storage.
- Fine-tuned GPT-4 to analyze student resumes, implementing a tag-based scoring system to identify relevant interests, and deployed the model using Flask.

University of Pennsylvania

Philadelphia, United States

Group Leader

March 2024–May 2024

- Engineered a Swift application that performs real-time image detection for Glaucoma in SLO fundus scans using a condenser lens.
- Trained a ResNet50 model on the Harvard Eye Fairness 30K dataset, then deployed it on Firebase ML.

AI@Penn

Philadelphia, United States

VP of Events

September 2020–May 2023

- Co-organized AI-focused Hackathon with 200 participants: secured partnership with NeuroFlow and SafeGraph.
- Planned AI Pitch, a competition that connects early startups with venture capitalists.

VOLUNTEER EXPERIENCE

Code Platoon

Chicago, United States

Teaching Assistant

October 2024–Present

- Mentored a team of 5 veterans, leading daily standups and guiding them through topics such as: full-stack development, REST API methodology and agile practices.
- Organized weekly social events to build camaraderie within the cohort and foster collaboration.

SKILLS

Technical Skills: Java, Python, R, Javascript, C, SQL, Kubernetes, Qt, OCaml, C++, Unity, HTML/CSS