

Joshua Tolentino

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EDUCATION

University of Calgary

September 2020 – April 2025

Bachelor of Science in Computer Science

Calgary, AB

- Faculty of Science Internship Program distinction, interned at Cisco for 16 months
- **Relevant Courses:** Software Engineering (SDLC), OOP in Java, Data Structures & Algorithms, Networks, Operating Systems, Databases (DBMS), AI, Information Security, Distributed Systems, Economics, Statistics

EXPERIENCE

Cisco

May 2023 – September 2024

Software Engineer Intern

Calgary, AB

- Built and maintained **backend microservices (Ruby, Java, Scala)** for **Cisco Secure Endpoint**, ensuring high availability (**99.99% uptime**) across production systems spanning North America, Europe, and Asia-Pacific
- Developed real-time **Kafka** streaming pipelines that processed **10M+ events/day**, improving throughput by **35%**
- Led key aspects of migrating internal **CI/CD** pipelines from **Jenkins** to **AWS CodePipeline**, meeting new **compliance requirements** while reducing deployment time by **50%** and increasing deployment frequency
- Spearheaded the adoption of the **Open Cybersecurity Schema Framework**, standardizing telemetry data
- Monitored and tuned data stores such as **Cassandra**, **MongoDB**, **Riak**, and **S3**, improving reliability and latency

PROJECTS

BreakTheBot

A web3 app where users can try to LLM inject an AI agent to break it and win money

- Created a **scalable** platform using **React**, **Next**, and **Socket.IO**, which handled a peak of **100 concurrent users**
- Deployed via **Docker** with **Nginx reverse-proxy** and used **Cloudflare** for **DNS management**
- Integrated **Solana RPC** for **web3** transaction verification and **blockchain** interactions
- Hardened the platform against **cybersecurity** vulnerabilities such as **replay attacks**

LeagueML

A Machine Learning-based web app that forecasts the result of a user's League of Legends match

- Constructed an **ETL pipeline** using **Python** and **Pandas** to collect user data from **open-source APIs**
- Offloaded the data collections process using a **cloud computing** solution with **AWS EC2**
- Utilized **scikit-learn** to develop a **GBM** model which accurately predicted the outcome of the user's games
- Built the web application using **React** and **FastAPI**, which was deployed using **Docker** on **Azure**

MyGymBuddy (CalgaryHacks Hackathon)

A web app that utilizes computer vision to assist those exercising at home

- Won **\$3000** for placing **third place** out of over 500 participants at the annual **CalgaryHacks** hackathon
- Integrated **Mediapipe** with **OpenCV** to track and identify movements of exercises
- Leveraged mathematical models to optimize exercises, resulting in an enhanced accuracy rate of **98%**
- Designed a front-end web interface for the **Python** application using **Streamlit**

SKILLS

Languages: Java, Python, Ruby, JavaScript, Typescript, Bash, SQL, C, C++, C#, HTML, CSS, Swift, R

Technologies & Frameworks: Spring, Node, React, Next, Elasticsearch, Apache Kafka, FastAPI, Terraform

Tools & Platforms: Linux, Git, AWS, Docker, Jenkins, Datadog, Kibana, Insomnia, Vercel, Chef, MySQL