

Christian Florea

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EDUCATION

University of Waterloo	Sep 2020 – Aug 2026
<i>Bachelor of Science in Mechatronics Engineering, Software Engineering Minor – GPA: 3.88/4.00</i>	

EXPERIENCE

Uber	Sep 2025 – Nov 2025
<i>Software Engineer Intern</i>	<i>Sunnyvale, CA</i>
<ul style="list-style-type: none">Working across iOS and Go services for Rider Experience, building a new feature used globally by riders.Collaborating on requirements with product and design teams to ensure integration across mobile and backend.	
Verkada	May 2025 – Aug 2025
<i>Software Engineer Intern</i>	<i>San Mateo, CA</i>
<ul style="list-style-type: none">Designed a file export pipeline (Kafka) to offload heavy compute from endpoint, improving success rate by 5.6%.Introduced active job tracking in Redis, limiting concurrency and ensuring fair resource usage across users.Scaled consumers on Kubernetes, tuning CPU and memory for efficient resource usage and reliable performance.Offloaded 100% of user read traffic from Postgres to Elasticsearch, reducing p50 endpoint latency by 46%.	
Magi Inc	Jan 2025 – Apr 2025
<i>Software Engineer Intern</i>	<i>San Francisco, CA</i>
<ul style="list-style-type: none">Built a vector-based recommendation engine from scratch to personalize fashion suggestions for users.Designed an ingestion queue to process image description, embedding, and vector storage for 900k+ images.Implemented a RAG-based re-ranking algorithm to improve relevance, increasing outbound clicks by 19%.	
Verkada	May 2024 – Aug 2024
<i>Software Engineer Intern</i>	<i>San Mateo, CA</i>
<ul style="list-style-type: none">Developed a new intercom dashboard page to display and sort more than 100k weekly call and video events.Created new React components that utilize Redux for state management; tested using RTL and Cypress.Created custom hooks to localize intercom events with user and call metadata, improving dashboard readability.	
Relay Financial	Sep 2023 – Dec 2023
<i>Full Stack Engineer Intern</i>	<i>Toronto, ON</i>
<ul style="list-style-type: none">Built a receipt management system using Express.js to parse and upload data from 1000+ daily emailed receipts.Offloaded intensive OCR and data parsing tasks to AWS Lambda, and integrated SES to notify users of errors.Implemented Veryfi's API to improve OCR, resulting in receipt to transaction matching accuracy of 98%.	

PROJECTS

OpenCV Ball Balancing Platform <i>Python, OpenCV, Firmware (C++)</i>	Oct 2024 – Dec 2024
<ul style="list-style-type: none">Used OpenCV for real-time object tracking, enabling accurate platform control on embedded hardware.Optimized thread synchronization to avoid race conditions and ensure consistent data flow between processes.	
Swim Meet Results Web Scraper <i>Python, OOP, Web Scraping</i>	Mar 2023
<ul style="list-style-type: none">Created a web scraper to analyze swim meet results (500+ athletes), visualizing the data using Matplotlib.Implemented a local caching system to persist scraped swim data across sessions, cutting runtime by 60%.	

EXTRACURRICULARS

Varsity and Club Swimming	2011 – Present
<ul style="list-style-type: none">Qualified for the 2020 Canadian Olympic Trials through commitment, strong work ethic, and training 15+ hr/wk.Exhibited leadership skills and ability to work with others as assistant team captain of the varsity team.	

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Go, C++, C, SQL

Tools: Postgres, AWS, GCP, WebSocket, Docker, React, Redux, Redis, Kafka, Kubernetes, OpenCV