

Chethin Manage

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EDUCATION

University of Ottawa
Bachelor of Science in Computer Science

Sep 2018 - Apr 2023

EXPERIENCE

Systems Developer Intern | University of Ottawa: Jan 2023 – Apr 2023

- Enhanced the reliability and security of a *Node.js and Express REST API* that handles data from over 50,000 end-users and integrated a newer LDAP client **achieving a 37% improvement in response times**.
- Contributed to migrating 315 uOttawa.ca subdomains by implementing Drupal, PHP, and JavaScript features to improve user experience and accessibility.

Software Developer Intern | Macadamian Technologies: Jan 2022 – Apr 2022

- Developed responsive front-end features with React and TypeScript for Macadamian's InQ Telehealth-Solution, which **propelled the platform's review scores by 20%** and later led to an acquisition by [Emids](#).
- Spearheaded the design and development of the instant messaging notification service within InQ using Material UI, Twilio communication API, and Lisp.

Systems Developer Intern | CBN Co. Lotteries: May 2021 - Dec 2021

- Engineered a REST API using Python and Flask for Transport Layer Security (TLS) operations, achieving a 99.999% uptime.
- Reduced server resources by 3x** compared to the previous SOAP API implementation on a Red-Hat Enterprise Linux (RHEL) server in production.

Software Engineer Intern | University of Ottawa: Sep 2020 - Apr 2021

- Implemented 11 UI/UX features into the department's e-learning website using React.js, Redux, and Firebase.
- Added automated testing using Jest.js and Github actions for **70% code coverage within 3 months** of project development start-date.

PROJECTS

UFC Fight Predictor | React, Python, Pandas, Scikit-learn github.com/cmanage1/ufc-fight-predictor

- Trained a Random Forest Classifier Model to **predict UFC fights with 63.6% accuracy**. Deployed as a full-stack app using a React.js frontend and Python REST API (FastAPI) backend.

BioProtocols (ongoing) | TypeScript, Rust, NoSQL, API Gateway github.com/kaernlab/BioProtocols

- Revolutionized the undergraduate biology lab experience through a web app that streamlines instructor organization, report data generation, and AWS-hosted deployment. Automated CI/CD pipelines through GitHub Actions and AWS CloudFormation enhance efficiency.

SKILLS

- Python, JavaScript/TypeScript, C++, Golang
- Numpy, Matplotlib, Pandas, Scikit-learn, Lodash
- React, Node.js, Flask, FastAPI
- Git, AWS, MongoDB, SQL, Docker, Linux

CERTIFICATIONS

- Machine Learning Specialization - *Stanford University* Aug 2023
- Certified Cloud Practitioner - *Amazon Web Services (AWS)* Jul 2023
- Google Cloud Essentials - *Google Cloud Platform (GCP)* Feb 2021