# First Last

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## EDUCATION

**BSc. Honours Computer Science With Software Engineering Specialization**     Windsor, ON | Jun 2021
UNIVERSITY OF WINDSOR
**Teacher Assistant (TA):** World Wide Web Information Systems Development

## WORK EXPERIENCE

**AMAZON** | SOFTWARE DEVELOPMENT ENGINEER INTERN     Toronto, ON | May 2020 – Aug 2020
- Designed and implemented a dashboard using **React** and **TypeScript** to visualize data stored in **DynamoDB**, decreasing time to understand delivery driver work sessions by over 10 times.
- Ensured only authorized employees have access to the application by creating an **AWS Lambda@Edge** function to intercept and sign valid requests.
- Devised and deployed the infrastructure in TypeScript through **AWS CDK**, then created efficient algorithms to process data from a custom **REST API**, so it could scale to handle millions of deliveries.
- Setup a CI/CD pipeline and exceeded requirements in each stage, which lead to the application being pushed to production.

**UNIVERSITY OF WINDSOR** | RESEARCH ASSISTANT (RA)     Windsor, ON | Feb 2020 - May 2020
- Developed a Personal Health Record (PHR) system in **Spring** based on the theoretical model outlined in Mitu Kumar's thesis.
- Applied the mCP-ABE encryption scheme using the JPBC library, so patients have fine-grained access control over their health records with the ability to instantly revoke access.

**JOATU** | SOFTWARE ENGINEER INTERN     Montreal, QC | Dec 2018 – May 2019
- Rewrote legacy **Django code** in **Ruby in Rails** and refactored it to make the system more extensible.
- Created **UML** diagrams and documented where features were implemented, to make the codebase more maintainable.

## PROJECTS

**AUTOMATED SPEAR-PHISHER** ⬈     PYTHON, PYSPARK, SELENIUM, APACHE, NLP, BIG DATA
A security research tool to send targeted spam messages on either Facebook or Twitter. The program analyzes the feed of its target to increase the effectiveness of the messages.

**IMAGE REPOSITORY** ⬈     JAVA, PHP, REACT, TYPESCRIPT, MAVEN, GCP, MYSQL
A full-stack image repository, where users can store their files. Created a GCP cloud function to implement CP-ABE encryption and used it to ensure files are secure at rest.

**BIOMETRIC DYNAMIC KEYSTROKE SPOOFER** ⬈     PYTHON, OBJECT-ORIENTED DESIGN, CYBERSECURITY
A program that authenticates users based on their typing patterns. And a spoofer that uses the genetic algorithm to mimic the user's typing pattern.

**DISTRIBUTED KEY-VALUE STORE** ⬈     JAVA, DISTRIBUTED SYSTEM, COMPUTER NETWORKS, CONCURRENCY
A distributed key-value store which automatically replicates data in the background while the user manages their data. Implemented a custom P2P protocol to maximize fault tolerance and scalability.

**WAR OF WEEBLES** ⬈     C#, UNITY, CONCURRENCY, ARTIFICIAL INTELLIGENCE
A capture-the-flag-styled shooting game composed of AI-controlled players. The agents change their goals based on various factors, such as their health, current weapon, their personality and what they see.

## SKILLS

**Languages:** Java, C++, Python, C#, PHP, Prolog, Bash, C, Racket, SQL
**Web Development:** React, JavaScript, TypeScript, HTML/CSS
**Technology:** Git, AWS, GCP, Azure, Docker, Unity, Apache, LaTeX, MongoDB, DynamoDB, Neo4j