






# MAX PHAM

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## TECHNICAL SKILLS

Programming	Java, Python, C, JavaScript, HCL, SQL, CSS
Frameworks	Spring Boot, Flask, React.JS
Database Systems	MySQL, PostgreSQL, MongoDB
AWS Services	Lambda, Cloudformation, Cloudwatch, EC2, ECS, API Gateway, S3, CloudFront

## PROFESSIONAL EXPERIENCE

from May 2020  
to Oct 2021

### Software Engineer I | Platform, UKEN GAMES, Toronto

- Reduced 100% cost through serverless implementation of Slack bot to update company's service status, in AWS EC2 upkeep and usage fees of previous Web App solution
- Saved up to 90% admin involvement in account management by implementing Terraform system, enabling management of 1000+ Github organization resources through JSON
- Consolidated 100% of company-wide documentation to a single Wiki solution: Wiki.JS. Deployed the service to AWS ECS with a robust permission/auth structure through OneLogin
- Reduced 30% of refactoring commits by pioneering front-end codestyle enforcement for the main admin portal using Prettier's plugin through Jenkins validation
- Accelerated game campaign's outreach efficiency by 28% with generic scheduling system using db-scheduler library, executing API endpoints automatically at scheduled times.

## EDUCATION

from Sept 2017  
to Present

### Computer Science Specialist | Honours Bachelor of Science, UNIVERSITY OF TORONTO

CS GPA: 3.5/4.0 | Expected graduation: May 2022

- Participated in multiple project courses to collaborate building software, as well as venturing into the fields of Image Processing, Principles of Programming Languages and Database Systems.
- Co-founder and Technology Lead of the Web Development club

## PROJECTS

### SDC TOOLS

 [github.com/MaXeraph/proj-FakeBirds](https://github.com/MaXeraph/proj-FakeBirds)

- Webapp for filling out medical SDC forms (XML) and converting them to PDF
  - Developed the mapping between custom XML to JSON syntax and created the parser through pair programming
  - Lead designer of API endpoints and Electron-app packaging pipeline


### PORTAL

 [github.com/MaXeraph/Portal](https://github.com/MaXeraph/Portal)  Application

- Webapp for compiles every piece of information about a course and its related Reddit posts
  - Implemented backend to populate DB with Course Data from UofT's Calendar and Reddit's related posts

### EXT4 CLONE

 Course Assignment

- ext4-inspired file system with *ls*, *cd*, *mkdir*, *mv*, *rm* fully implemented using C on top of FUSE

## OPEN-SOURCE CONTRIBUTIONS

- Firefox: Reduced installer size by 15% with bzip2 instead of gzip compression
- Wiki.JS: Fix invalid usage of AWS S3 for renaming operations.