

# MICHAEL EDEN

## 2A SYSTEMS DESIGN

### Contact

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### Skills

#### Languages

- Python
- Java
- C++
- Ruby

#### Tools

- Unix
- Git
- Qt
- Android Studio

#### Principles

- OOP
- MVC
- Agile Development

#### Web Development

- Flask
- JavaScript
- HTML
- CSS
- Bootstrap

### Projects



#### StudyBot (2017)

JavaScript, Python, Flask

Quiz yourself from your own notes with **text-processing APIs** to generate **content-specific questions**.



#### 3D Game of Life (2017)

Java, OpenGL

**Simulate** cells with unique behaviours, and watch them compete for space in **real time**.

### WORK EXPERIENCE

Side Effects Software, **Python Developer** Sept '17 - Dec '17

- Improved capturing and applying poses on **3D characters** by capturing constraints and overriding tracks
- Applied **Qt's Model/View** architectural pattern to the Pose Library, allowing for greater flexibility in pose presentation
- Streamlined the organization and sorting of poses by implementing **directory-structuring; copy and paste; drag and drop; and preview** operations
- Added separate file saving for image and animation assets, increasing **pose modularity and portability**
- Created **two additional save formats** for exporting and importing pose libraries

lotum Inc. (Start-up), **Software Developer** Jan '17 - April '17

- Applied **written communication** skills to improve customer feedback scores while reducing average email response time to **under 30 minutes**
- **Translated technical concepts** into clear, comprehensible troubleshooting articles for end users
- Implemented **automated logging** for the execution, success, and failure of test cases

### VOLUNTEER EXPERIENCE

Coffee 'N Code, **Education Director** Jan '18 - Present

- **Developed and taught curricula** to a classroom of students while accommodating all skill levels of programming
- Continually **assessed feedback** to adjust content

Not Just Tourists, **Executive Member** Jan '18 - Present

- Applied marketing skills and interpersonal abilities to recruit **over 10 members** in 2 hours
- Designed signs to indicate the placement of medical supplies using **iWork**, increasing pack organization

### EDUCATION

University of Waterloo, **Systems Design Engineering**

- Ranked 12 out of 93
- Data Structures and Algorithms (In Progress)
- Human Factors In Design (84%)
- Digital Systems (92%)
- Digital Computation (95%)