# Forest Anderson

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## EDUCATION

**CARLETON UNIVERSITY**
BCS in Computer Science
*Honours in Game Development*
Expected June 2023

## LINKS

Github:// **AngelOnFira**
Gitlab:// **AngelOnFira**
LinkedIn:// **forest-anderson**

## SKILLS

**LANGUAGES:**

Rust • Python

**TECHNOLOGIES:**

Docker • Burp Suite • Wireshark
AWS • Digital Ocean • Hetzner
Github Actions • GitlabCI • Jenkins

## VOLUNTEER

**Rustlang CTCFT WG**
Sept 2021 - Present
*Team Lead*

**Rustlang Gamedev WG**
Nov 2020 - Present
*Team Member*

**Carleton SCS OpenStack**
June 2021 - Present
*Cluster Admin*

**Carleton Comp Sci Society**
Sept 2015 - May 2019
*Student Society*

**Hack All The Things**
Apr 2018 - Present
*Cyber security competition*

**Lame Jam**
Nov 2017, Nov 2021
*Local game jam*

## EXPERIENCE

**VELOREN** | Meta Lead, Core Developer
Jan 2019 - Present | Remote
- Re-designed **Gitlab CI** system to use **Docker** images and optimize **Rust** builds
- Edited a weekly blog detailing the recent technical advancements
- Hosted weekly meetings with contributors to discuss development progress
- Spoke at **CUSEC 2020, MiniDebConf 2 2020,** and **Rust in Arts 2021**
- **Interviewed with GamingOnLinux** about Veloren's development process

**TIMSLE** | Backend Developer
July 2018 – Present | Ottawa, ON
- Migrated the backend stack from **Heroku** to **AWS Fargate**
- Designed and developed a **CI/CD** pipeline with **Jenkins**
- Created **Docker** images for development and production web servers
- Created a command line tool that brings up a local development environment

**GRAPHICS IMAGES AND GAMES LAB** | Research Student
May 2016 – Aug 2016 | Ottawa, ON
- Created a pebble mosaic filter for digital photos
- Wrote the pipeline in **C++,** used **OpenCV** to manage and process the images
- Used simple linear iterative clustering to segment the image and phong lighting to display the pebbles

## PROJECTS

**RUSTY CHRISTMAS TREE** Dec 2021
- A Raspberry Pi program that controls an LED Christmas tree
- Created in **Rust** with local visualization done using **Nannou**
- Includes a **Warp** backend server and a frontend UI made with **Yew**

## ACHIEVEMENTS

**GITHUB CAMPUS EXPERT** | Fall 2021 Batch
- 1 of 80 accpeted out of 8000+ applicants, and 1 of the 8 in Canada
- Completed several learning modules
- Co-hosted a stream with Github Education during Universe 2021

## PUBLICATIONS

[1] L. Doyle, F. Anderson, E. Choy, and D. Mould. Automated pebble mosaic stylization of images. *Computational Visual Media*, 5:33–44, 03 2019.

## COMPETITIONS

| Year | Rank | Event |
|------|------|-------|
| 2020 | 23rd | NSec CTF 2020 |
| 2019 | 5th | iHack 2019 |
| 2019 | 5th | CS Games Security Challenge |
| 2018 | 10th | Bsides Ottawa |
| 2018 | 3rd | GeekSeek V CTF |
| 2018 | 2nd | OWASP CTF |