

# Forest Anderson

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## EDUCATION

**CARLETON UNIVERSITY**  
BCS IN COMPUTER SCIENCE  
Expected December 2021

## LINKS

Github:// [AngelOnFira](#)  
Gitlab:// [AngelOnFira](#)  
LinkedIn:// [forest-anderson](#)

## SKILLS

### LANGUAGES:

C++ • C • C# • Python  
JavaScript • Java • Rust

### TECHNOLOGIES:

Docker • Burp Suite • Wireshark  
AWS • Digital Ocean • Heroku  
Jenkins • CircleCI • GitlabCI  
AWS ECS • AWS EC2 • AWS VPC

### FRAMEWORKS:

Django • Node.js • Flask

## VOLUNTEER

**CARLETON COMP SCI SOCIETY**  
Sept 2015 - May 2019

- VP Academics
- Treasurer
- VP Social
- First Year Rep

**HACK ALL THE THINGS**

Apr 2018 - Present

- Co-lead

**HACK.CARLETON**

Apr 2016 - Present

- President

**LAME JAM**

Nov 2017

- Co-lead

**CARLETON .DEVCLUB()**

Jan 2019 - Present

- Co-lead

## EXPERIENCE

**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

**SCHOLARPRO | CONTRACT DEVELOPER**

May 2019 | Ottawa, ON

- Created **Docker** images for the production web servers and database
- Deployed the server stack on **AWS Fargate** and set up daily database backups
- Set up **CircleCI** for continuous delivery, and **Sentry** for error tracking

**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
- Co-authored a paper titled 'Automated pebble mosaic stylization of images'

## PROJECTS

**VELOREN** Jan 2019 - Present

- An open source game built in **Rust** from scratch
- Re-designed **Gitlab Continuous Integration** system to use **Docker** images to optimize **Rust** builds
- Wrote a weekly blog detailing the recent technical advancements
- Planed and hosted periodic meetings with the core team to discuss development progress and analyze milestone progress

**RESUME TEMPLATER** July 2019

- A tool that creates versions of resumes for different positions
- Uses the **Jinja** library to template .tex files in the Deedy resume format
- Created a **Docker** image for easy usage without installing multiple libraries

## COMPETITIONS

2019	5th	iHack 2019
2019	Top 50%	NSec CTF 2019
2019	5th	CS Games Security Challenge
2018	10th	Bsides Ottawa
2018	3rd	GeekSeek V CTF
2018	2nd	Hack All The Things 2.0
2018	2nd	OWASP CTF
2017	1st	Hack All The Things 1.0

## 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.