

# Forest Anderson

<https://forest-anderson.ca>  
forestkzanderson@gmail.com | +1 (613) 699-1031

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## EDUCATION

### CARLETON UNIVERSITY

BCS IN COMPUTER SCIENCE  
*Honours in Game Development*  
Expected June 2022

## LINKS

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

## SKILLS

### LANGUAGES:

**Primary:** Rust • Python • Javascript  
**Backup:** C • C++ • C# • Java

### TECHNOLOGIES:

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

### FRAMEWORKS:

Django • Node.js • Flask

## VOLUNTEER

### CARLETON COMP SCI SOCIETY

Sept 2015 - May 2019

*Student Society*

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

### HACK ALL THE THINGS

Apr 2018 - Present

*Cyber security competition*

- Co-lead

### HACK.CARLETON

Apr 2016 - Apr 2017

*Cyber security club*

- President

### LAME JAM

Nov 2017

*Local game jam*

- Co-lead

### CARLETON .DEVCLUB()

Jan 2019 - June 2019

*Side project club*

- 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

## PROJECTS

### VELOREN Jan 2019 - Present

- Re-designed **Gitlab CI** 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

2020	10th	iHack 2020
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	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.