

# Mohamad Mounir Safadieh

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## EDUCATION

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### B.A. Computer Science

May 2021

*Vassar College, Poughkeepsie, NY*

**Relevant Coursework:** Analysis of Algorithms, Computer Organization, Data Structures & Algorithms, Software Design & Implementation, Language Theory & Computation, Operating Systems

## PROJECTS

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### Ancile *A platform for privacy-aware development*

[github.com/ancile-project/ancile](https://github.com/ancile-project/ancile)

Ancile provides an interface for users to authorize data import from data providers and specify policies on how it's used by each app. Policies are regular expressions over a set of commands that operate over data.

## EXPERIENCE

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### Research Assistant

Sep 2019 - Present

*Computer Science Department @ Vassar College, Poughkeepsie, NY*

- Worked remotely with the Databox Project in the UK to integrate Ancile into Databox
- Redesigned Ancile front-end using Vue.js and GraphQL/Graphene
- Implemented model distribution infrastructure for privacy-aware, federated machine learning using RabbitMQ

### Research Fellow

May 2019 - Aug 2019

*Undergraduate Research Summer Institute, Poughkeepsie, NY*

- Worked with other students on an online dashboard for Ancile using Django, PostgreSQL, and Bootstrap
- Built a visualizer for the policy language using MermaidJS
- Containerized Ancile using Docker with NGINX and Redis
- Developed Python and TypeScript/JavaScript libraries for Ancile apps

### Independent Study - Building Privacy-Aware Apps

Jan 2019 - May 2019

*Vassar College, Poughkeepsie, NY*

- Independently developed Slack chatbots using Flask to demonstrate the functionality of Ancile
- Deployed apps on Ubuntu VM using NGINX and Unicorn

### Research Assistant

Sep 2018 - May 2019

*Arabic Studies @ Vassar College, Poughkeepsie, NY*

- Increased task efficiency by developing Python tools that automate research tasks
- Analyzed and categorized movies and documentaries on different topics

### Lab Assistant

May 2018 - Aug 2018

*Psychology Department @ Vassar College, Poughkeepsie, NY*

- Developed a customizable cognitive motor task in JavaScript to be used for psychological research
- Developed a wrapper in Python injecting the JavaScript code in Qualtrics raw JSON surveys

## SKILLS

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### Advanced

JavaScript, Python, POSIX shell scripts

### Intermediate

C, Racket, TypeScript

### Novice

Haskell, Rust

### Back-end Development

Django, Flask, MongoDB, PostgreSQL, SQLite

### Front-end Development

HTML/CSS, Bootstrap, Vue.JS

### Misc. Skills

CLIs, Docker, Git, Regular Expressions

### Languages

English, Arabic, French