

# Christa Cochran

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## Education

### Grinnell College

Grinnell, IA

*Bachelor of Arts in Computer Science and Studio Art*

May 2022

- GPA: 3.8/4.0; QuestBridge Scholar
- Selected Coursework: CSC-207: Object-Oriented Programming, CSC-324: Software Design and Development, CSC-261: Artificial Intelligence, CS-5810: Formal Methods

## Specialized Skills

**Certifications:** AWS Cloud Practitioner (2022)

**Languages:** Python • C • Java • JavaScript • HTML • YAML • CSS • Ruby on Rails • Scheme • Alloy • Dafny • Lustre

**Technology/Libraries:** Lightroom • Illustrator • Git • Photoshop • React • Node.js • MERN stack • MongoDB/Mongoose • MySQL • AWS

## Experience

### Computer Science Peer Educator

January 2020 - May 2022

*Computer Science Department, Grinnell College*

Grinnell, IA

- Guide students through problems, programming concepts, and debugging code in functional, imperative, and object-oriented programming, discrete structures, and finite automata
- Conduct 1-1 on meetings with students to help them build competence and understandings of the course content
- Grade and provide feedback on readings, labs, and demonstration exercises and communicate with professor on students' understanding and struggles

### Software Development Engineer Internship

June 2021 - August 2021

*Eero by Amazon*

Remote

- Led a proof of concept in order to improve time series cloud and system health metrics
- Prototyped and documented a new metric collection backend using YAML, Amazon Managed Services, and Kubernetes
- Connected my research and findings with the existing cloud system, infrastructure, and legacy code
- Partnered with various teams across the organization to help research the best tools, technology, and methods and understand current framework
- Recipient of Best Presentation Award for Eero 2022 Hackathon

### Mathematical Image Synthesis Toolkit Research

May 2020 - December 2020

*Mentor Advanced Project CSC-499, Grinnell College*

Remote

Funded by NSF Louis Stokes Alliance for Minority Participation fellowship

- Collaborated with research team using the scrum agile model to develop a web application for a visual toolkit where users can create images based on a functional and mathematical model
- Designed front-end pages with interactive features, including profiles, galleries, sharing, and commenting, using JavaScript and React
- Developed database, back-end api, and routes using MongoDB and Mongoose
- Surveyed MIST users and analyzed user experience and thought processes through varying prompts and puzzles

### Anti-Racism Library

November 2020 - December 2020

*CSC-324: Software Design and Development*

Remote

- Developed a web application with fellow students using the agile methodology to host anti-racism readings and resources with features such as searching, filtering, and administration tools for content moderation
- Extended and improved incomplete code from a previous group using the MVC framework
- Built front-end views using HTML, CSS, and Bootstrap and back-end models and controllers using Ruby on Rails
- Met with client and created mock-ups and wireframes to ensure product was satisfying the project vision