

Martin Chamberlin

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Education

Grinnell College | BA | Computer Science and Studio Art 2019

- Selected Coursework: Agile Software Development, Web Applications, Algorithms, Object-Oriented Design, Imperative Problem Solving, Data Structures, Artificial Intelligence

University of Georgia | MFA | Studio Art 2024

- Tools Used: C++, Python, Robotics, Machine Learning

Experience

Full-Stack Developer | Freelance September 2024 – Present

- Designed and built a property-management web-app in Ruby on Rails and JavaScript

3D Design Teacher | University of Georgia August 2022 – May 2024

- Designed curriculum and taught 4 semesters of undergrad [3D design classes](#)
- Guided students with through month-long projects with weekly check-ins and design criticism

Software Engineer | Epic Systems September 2019 – June 2021

- Developed population health analytics software using C#/.NET, SQL Server, and Typescript
- Created distributed-system web services to communicate between servers hosting over 100 million patients
- Restructured data index, reducing storage size by 17%, saving \$4 million in costs over 3 years
- Added COVID vaccine data to our database within 3 weeks in early 2020

App Designer | AppDev Grinnell August 2018 – May 2019

- Designed an [Android radio app](#) for the Grinnell community, studied UI design
- Collaborated with stakeholders to determine App needs, developed brand identity

Industrial Design Intern | Schon DSGN June - August 2018

- Designed and 3D-modeled bicycle parts in Fusion, 3D-printed prototype parts, CNC milled

Coding Projects

[Statistical Basketball Analyzer](#) 2023 – Present

- Data analyzation Python application for player value in fantasy leagues
- Identified inefficiencies in current ESPN algorithm. Developed my own algorithms to create “market” advantage from scheduling, scoring, and cognitive bias

[Synchronized Robotic Sculpture](#) 2024

- Used C++ and ESP32 to drive motors for a balanced sculpture in art gallery show

Grinnell Organic Food Access App 2019

- Developed Ruby on Rails web-app for helping food-stamp users to find local organic food

Volunteering

Teacher Mechanic | Bradley St. Bicycle Coop | New Haven, CT 2023 - Present

Volunteer Mechanic | Madison Freewheel | Madison, WI 2020 - 2021

Drawing Instructor | Grinnell in Prison | Newton, IA 2018-2019

Languages: C# | .NET | Java | C | C++ | Python | Ruby | SQL | M | JavaScript | TypeScript

Tools: Git | Figma | Docker | Google Cloud | Jira | HTML | CSS | React.JS