



## EDUCATION

### COLGATE UNIVERSITY, Computer Science, Hamilton, NY

August 2018 – May 2022

**GPA:** 3.9

**Awards:** Computer Science Award for Excellence and Outstanding Community Contributions, Laura Sanchis Award for Excellence in Research, Dean's Award With Distinction for Academic Excellence

**Courses:** Algorithms, Data Structures, Software Engineering, Computer Systems, Data Modeling, Networks, Cybersecurity & Privacy, Discrete Math, Multivariate Calculus, Linear Algebra, Computer Vision, Natural Language Processing, Machine Learning

## EXPERIENCE

### SOFTWARE DEVELOPER, CO-OWNER

August 2021 – July 2022

BLANK Humanity, Remote

- Collaborated with 2 developers to design and build cloud-hosted social platform, scaling to efficiently store, process, and serve 400,000+ photos and texts, generating 1,600 sales and \$220,000.
- Created unit and integration tests ensuring 99% accuracy of machine learning model and reliable deployment as new data was added, meaning users always had a working product.
- Managed 4-5 simultaneous prototypes including all timelines, goals, and results using Agile, turning ambiguous user suggestions into reliable, usable products.
- Communicated technical results to a community of 2,800 users, increasing engagement across social media by an average of 12% with each major release.
- **Technologies:** Python, C#, Javascript (React), REST APIs, Git

### LEAD DEVELOPER

January 2021 – June 2022

Dev Launchers, Austin, TX

- Onboarded and led team of over 60 cross-disciplinary contributors across 8 countries, building pipelines, managing 100+ tasks through Git, and producing 602 commits across 3 repositories.
- Mentored 19 beginner coders of all ages in algorithm design, data structures, and clean code principles, allowing them to apply their skills as volunteers on open-source projects and leading to 6 trainees getting their first paid job in the industry.
- Built a product roadmap, wrote documentation, used performance indicators to align team, and led weekly stand-ups to achieve regular deadlines, delivering 100% of software releases on schedule.
- Created testing and review framework to handle many contributions, achieving 100% reliability in Git testing environment and cloud-hosted app.
- **Technologies:** C#, Azure, Git

### SOFTWARE DEVELOPER

August 2021 – December 2021

Colgate University, Hamilton, NY

- Applied test-driven development and Agile to build cloud-hosted SaaS to-do list with a team of developers, creating 4 iterations based on user feedback and stories.
- Wrote over 60 unit, integration, and functional tests for model-view-controller architecture with SQLite relational database backend, achieving 100% code coverage and reliable updates with CI/CD.
- Managed kanban system for issues and enforced Git standards and usage, cutting meeting times in half and facilitating 384 commits.
- **Technologies:** Ruby on Rails, Javascript, HTML/CSS, REST APIs, SQLite, Git, Selenium, jQuery

### RESEARCH DEVELOPER

January 2021 – June 2021

Colgate University, Hamilton, NY

- Planned objectives and resource needs with 3 environmental researchers, surveying recent publications for approaches and building a pipeline to process and handle 2,000+ 4k photos, allowing researchers to identify 400 seals across migration sites without harmful tagging.
- Built and optimized AWS EC2 and S3 pipeline using C and Python, reducing data loading and training times by 75%, with results leading to publication covered by 4 news outlets and Smithsonian.
- **Technologies:** Python, C, AWS, Git

## SKILLS

**Proficient:** Python, C#(.NET), CI/CD (Git), RESTful APIs, HTML/CSS, Unix, Agile, Machine Learning

**Experienced:** Ruby, Relational Database (SQLite), Cloud Computing (AWS, Azure), C, Java