

# JULIA G. PAPP

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## EDUCATION

**Cornell University, College of Arts and Sciences**

*Bachelor of Arts in Computer Science*

**Ithaca, NY**

*Expected May 2025*

### Relevant Coursework:

- Functional Programming, Analysis of Algorithms, Machine Learning, Computer System Organization, Natural Language Processing, OO Programming & Data Structures
- Discrete Structures, Probability Models and Inference, Linear Algebra, Calculus I-III
- Digital Product Design, Human-Computer Interaction Design, Web Design and Programming

## EXPERIENCE

**Software Developer** | *Hack4Impact*

*Sept. 2022 - Present*

- Developer on Cornell's award winning project team that aims to create products for nonprofits around the world
- Created a Jupyter Notebook that analyze environmental data by industry using NAICS codes
- Implemented interactive mapping to visualize demographics of the surrounding area, facility violations

**Teaching Assistant** | **CS2850 - Networks** | *Cornell University*

*Sept. 2023 - Present*

- Conducted weekly office hours, offering individualized support to students in CS2850
- Provided constructive feedback on assignments and exams, ensuring fair and accurate grading
- Instructed students on the application of graph theory and game theory tools, enabling them to develop analytical frameworks for effective network analysis.

**Research Assistant** | **Comm. and Collaborative Technologies Lab** | *Cornell University*

*May 2023 - Aug. 2023*

- Accepted to C&CT research team with NSF funding, demonstrating expertise and potential in the field
- Applied iterative design thinking and performed rigorous testing to pinpoint areas for improvement in remote and hybrid communication and multilingual group dynamics
- Utilized user interviews as a powerful tool to effectively identify instances of misunderstandings in social intentions, enabling targeted intervention and resolution strategies

**Teaching Assistant** | **CS4820 - Analysis of Algorithms** | *Cornell University*

*May - Aug. 2023*

- Conducted weekly office hours, offering individualized support to students in CS4820
- Provided constructive feedback on assignments and exams, ensuring fair and accurate grading
- Facilitated a collaborative learning environment by guiding students through complex algorithmic concepts and problem-solving strategies

**Research Assistant** | **Nexus Scholars Program** | *Cornell University*

*May - Aug. 2022*

- Selected for Cornell University's Inaugural Cohort of Nexus Research Scholars to complete a full-time research program with a 10% acceptance rate Conducted literature reviews to create scales for the dependent variables
- Used statistics, text analysis, experimental design, and programming to set up the study
- Analyzed the research findings in JASP and Excel

## PROJECTS

**Improving Lagos Food Bank's UX** | Product Design

*Spring 2023*

- Conducted user research with Lagos Food Bank volunteers to analyze and solve problems their users face
- Applied iterative design thinking and worked with software engineers to launch product
- Created a design system on Figma to ensure consistency across the platform

**Pomodoro Timer** | OCaml, VS Code

*Fall 2022*

- Developed a customizable Pomodoro productivity timer using OCaml
- Utilized OCaml GUI and procedural generation techniques to create an interactive user interface Integrated time installation functionalities to enhance the timer's accuracy and reliability
- Collaborated with a team of two other software engineers to successfully implement the project

**Earth Law Center Admin Page** | Product Design

*Fall 2022*

- Designed an admin page for a non-profit organization to enhance the user experience for the admins
- Lead weekly partner meetings to find the problem space, talk to users of the organization, and ideated solutions to better the user experience
- Prototyped the final flow and created a design-developer handoff

## SKILLS

**Languages:** Java, Python, OCaml, Swift, SQL, JavaScript, R

**Technologies/Frameworks** Git, HTML/CSS, Atom, Eclipse, VS Code

**UX/UI Tools:** Figma, Blender, Spline, Photoshop