RACHEL PINEDA

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EDUCATION

Cornell University, College of Engineering — Expected Graduation May 2027
B.S. in Computer Science; Minor in Operations Research — GPA: 3.81

- **Honors**: Jacobs Engineering Scholar
- **Campus Involvements**: Society of Women Engineers, Women in Computing at Cornell, Pi Beta Phi Sorority
- **Relevant Coursework**: Object-Oriented Programming & Data Structures, Linear Algebra, Multivariable Calculus, Macroeconomics, Discrete Structures (Fall 2024), Digital Logic & Computer Organization (Fall 2024)

EXPERIENCE

Combat Robotics @ Cornell Project Team — Oct. 2023 – Present
Subteam Co-Lead — *Ithaca, NY*

- Managed team of 6+ engineers through weekly 6-hour meetings, delegated responsibilities and oversaw progress
- Redesigned team website by migrating to React.js, reducing codebase by *80%* and improving code maintainability
- Led communication with corporate sponsors, resulting in a *12%* increase in sponsorship revenue in the first year
- Developed a semester-long timeline, setting strategic goals and deadlines to align subteam efforts
- Delivered personalized weekly feedback to team members, driving individual growth and overall team performance

John Hopkins Center for Talented Youth — July 2024 – Aug. 2024
Teaching Assistant — *Collegeville, PA*

- Led 8 hours of weekly evening classes, taught advanced collegiate-level game theory and economics curriculum
- Designed lesson plans with instructor, incorporating adaptive teaching strategies for diverse learning styles
- Enhanced grading efficiency by *57%* by implementing a systematic grading method, reducing turnaround time
- Maintained consistent and professional correspondence with students, parents, and faculty

Bucks Bubbles — May 2023 – Aug. 2024
Product Marketing Manager — *Glenside, PA*

- Implemented an efficient feedback collection system to identify improvement areas and enhance customer satisfaction
- Launched innovative "snow" parties for children with fake snow, increasing social media engagement by *55.5%*

PROJECTS

Personal Website | JavaScript, TypeScript, HTML, CSS — Dec. 2023 – Present

- Developed a responsive website with cross-device compatibility, integrating animations to improve user experience
- Improved front-end and back-end integration using React.js and Tailwind CSS

FBGA Numeric Display | Verilog — Aug. 2024 – Sept. 2024

- Implemented a five-bit numeric display for visualizing binary-to-decimal conversion, designed hardware with Verilog
- Optimized subcircuit performance by *12%* by reducing combinational logic gates and Boolean algebra equations

Slack Bot Project | Python, JSON — Jan. 2024 – May 2024

- Automated team task reminders and progress tracking; developed a Slack Bot using the Slack API and AWS Lambda
- Improved communication efficiency by coding a custom Slack command to edit automated messages post-sending
- Implemented automation of image categorization for design team by sorting chat logs and storing with DynamoDB

Intelligent Scissors Application | Java — Apr. 2024 – May 2024

- Coded an interactive app using Dijkstra's algorithm and heap priority queues to streamline image selection process
- Improved edge detection accuracy by designing custom algorithm weights to accurately follow edges in images

SKILLS & INTERESTS

Programming Languages: Java, Python, JavaScript, TypeScript, HTML, CSS
Tools/Technologies: Git, React, Linux, Jupyter, AWS Lambda & DynamoDB, IntelliJ, Figma, AutoCAD, Verilog
Languages: English (fluent), Russian (intermediate)
Interests: Classic Literature, Crosswords, Sudoku, Baking, Collecting Vinyl and CDs