

# Ava Crnkovic-Rubsamen

ac65@princeton.edu | [github.com/ava-cr](https://github.com/ava-cr) | 1 (347) 213-7230

<b>Education</b>	<b>Princeton University</b> , Princeton, NJ — <b>GPA 3.97</b> 2019 - May 2024 A.B. Candidate, Computer Science. Minors: Statistics & ML, Robotics & Intelligent Systems. Leave of absence due to Covid-19 2020 - 2021 <b>The Dalton School</b> , New York, NY — <b>GPA 3.99</b> 2014 - 2018 <b>The American School in Japan</b> , Tokyo — <b>GPA 4.00</b> 2015 - 2016
<b>Technical Skills</b>	Java, Python, Hack (PHP) Objective-C, React, OCaml, C, R, Swift, SQL, HTML, Javascript, Git, AWS, Pytorch, TensorFlow, Scikit-learn, OpenCV, NLTK, Flask
<b>Coursework</b>	<b>Technical:</b> Algorithms & Data Structures, Intro to Machine Learning, Computational Reasoning, Multivariable Calculus, Linear Algebra, Programming Systems, Statistics, Computer Vision <b>Language:</b> Italian (Proficient), Latin (8 years)
<b>Technical Experience</b>	<b>Apple</b> — <i>Software Engineering Intern, System Experience</i> Summer 2023 <ul style="list-style-type: none"><li>• Researched, designed, and implemented the machine learning pipeline responsible for link/date/address/contact/2FA recognition in text and images across the Apple ecosystem</li><li>• ML engineering in conjunction with NLP team, implemented a prototype and evaluated performance</li><li>• Project slated for productization and rollout across the whole userbase</li></ul> <b>Meta</b> — <i>Software Engineering Intern, Instagram AR Server</i> Summer 2022 <ul style="list-style-type: none"><li>• Modernized the privacy and controls on image/video effects at Instagram by refactoring and deprecating legacy code paths and data models, performing multiple data migrations over &gt; 500k entities, and implementing new infrastructure</li><li>• Collaborated across teams from the larger family of apps to brainstorm and execute effective and safe consolidation of the gating of effects to a single field, reducing code complexity while avoiding downstream breakage</li></ul> <b>Meta</b> — <i>Facebook University iOS Engineering Intern</i> Summer 2021 <ul style="list-style-type: none"><li>• 3 week iOS engineering bootcamp followed by 5 weeks of individual work on iOS app (Objective-C)</li><li>• Built iOS app Favorites, a social media app complete with push notifications that allows users to save their favorite locations to a personal map, upload updates and photos to specific groups of followers, add friends, and view friends' maps, updates, and locations (<a href="https://github.com/ava-cr/Favorites">github.com/ava-cr/Favorites</a>)</li></ul> <b>The Coding School</b> — <i>Fellow</i> Sept 2020 - February 2021 <ul style="list-style-type: none"><li>• Administrated Intro to Quantum Computing Course with IBM Quantum (~8500 students)</li><li>• Performed outreach to promote diversity in students, conducted data analysis to present to our partners at IBM, moderated lectures, taught weekly homework review sessions (~100 students)</li><li>• Wrote and edited The Coding School's Quantum textbook</li><li>• Developed curricula for The Coding School courses on Python and Artificial Intelligence</li></ul> <b>Princeton CS Dept</b> — <i>Grader &amp; TA</i> Spring 2020, Fall 2021 <ul style="list-style-type: none"><li>• Graded programming assignments and exams and held 2 hour weekly lab TA sessions to assist ~15 intro Computer Science students in debugging Java code and to teach new concepts</li></ul> <b>CUvids</b> — <i>Research &amp; Development Intern</i> Summer 2020 <ul style="list-style-type: none"><li>• Worked on a 2-person intern team reporting to CUvids CEO to build pilot instructor dashboard using Django/Python and hosted on AWS for CUvids' online learning service to be used by 30+ Princeton, Rutgers, and Wellesley professors and preceptors starting fall 2020</li><li>• Coded actionable data analytics using plotly to track the progress and engagement of students</li><li>• Generated weekly data reports for ~5 professors of summer courses using Jupyter Notebooks, pandas, and seaborn and then automated the process on the instructor portal</li></ul>
<b>Leadership, Advocacy, &amp; Affiliations</b>	<b>Princeton Students for Reproductive Justice Treasurer</b> 2021 - 2023 <b>Fellow at Rewriting the Code</b> 2020 - Present <b>Princeton Women in CS &amp; Princeton Society of Women Engineers</b> 2019 - Present