

Ananya Bhatia

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Education

Northwestern University <i>Combined Master's and Bachelor's Degree in Computer Science</i> <i>Concentration in Software Engineering, Certificate in Integrated Marketing Communications and Minor in Fine Art</i>	Expected Graduation: June 2027 Evanston, Illinois
<ul style="list-style-type: none">‣ Major GPA: 3.75 / 4.00, Overall GPA: 3.59 / 4.00‣ Relevant Coursework: Data Structures and Algorithms, C/C++, Scalable Software Architectures, Artificial Intelligence, Machine Learning, Human-Computer Interaction, Computation Theory, Agile Software Development, Combinatorics, Discrete Mathematics, Computer Systems, Social Networks Analysis, Ruby on Rails Development‣ Activities: Women in Computing, Marketing Club VP, Art Studio Supervisor, Mentorship for High School Students	

Technical Skills

Programming Languages: Python, SQL, R, C, C++, JavaScript, TypeScript, Ruby, HTML5, CSS (with Bootstrap, Tailwind)
Technologies: React.js, Node.js, Rails, Flask, MySQL, Firebase, AWS (Lambda, EC2, API Gateway, S3, RDS), Docker
Developer Tools: Git, Github, VS Code, Postman, RStudio, Figma, Adobe Creative Cloud, Slack, Notion, Trello

Experience

Snaplet for Northwestern University Department of Computer Science <i>Founder and Software Engineer</i>	May 2025 - Present Evanston, Illinois
<ul style="list-style-type: none">‣ Secured \$4,000 award to develop program visualization software serving 200+ monthly users in intro CS courses‣ Engineered full-stack tool with React.js, dnd-kit, and Firestore for real-time data sync and advanced permissions‣ Deployed on Firebase Hosting with scalable cloud infrastructure, reducing 180+ faculty grading hours per quarter	
PADS Lake County <i>Software Engineer Consultant</i>	March 2025 - June 2025 Evanston, Illinois
<ul style="list-style-type: none">‣ Drove Agile team of 4 engineers consulting for nonprofit, delivering React.js, Tailwind, Firebase reporting platform‣ Built public and admin portals with Realtime DB and controlled forms, decreasing report processing time by 40%‣ Integrated Google Maps API heat map with reports-on-hover, highlighting hotspots and supporting 500+ reports	
TIDAL Lab <i>Software Engineer Intern</i>	November 2024 - March 2025 Evanston, Illinois
<ul style="list-style-type: none">‣ Developed TunePad admin page using React.js and TypeScript, with dynamic components and role-based access‣ Redesigned UI/UX in Figma, improving navigation, responsiveness, clarity, and administrator workflow efficiency‣ Automated content management with React hooks and real-time updates, lessening administrative time by 50%	
Northwestern University Department of Computer Science <i>Teaching Assistant: Fundamentals of Python Programming</i>	September 2024 - Present Evanston, Illinois
<ul style="list-style-type: none">‣ Mentored 100+ students in Python through office hours and individual support, improving coding proficiency‣ Collaborated with faculty to beta-test and refine lab assignments, ensuring clarity and effectiveness of questions‣ Graded 200+ assignments, providing personalized feedback on debugging, pseudocode, and time complexity	

Projects

Ignite Startup Matchmaking App React.js, Typescript, Firebase Realtime DB	March 2025 - June 2025
<ul style="list-style-type: none">‣ Led a team of 5 engineers using Agile methodologies to build a student-startup matchmaking app with Firebase‣ Utilized React.js, TypeScript, and Tailwind to implement profiles and customizable dashboards for an intuitive UI‣ Designed NoSQL schema in Firebase Realtime Database using nested JSON nodes and optimized ID-based queries	
Course Marketplace App Ruby on Rails, JavaScript, Bootstrap, PostgreSQL	March 2025 - June 2025
<ul style="list-style-type: none">‣ Built Ruby on Rails course marketplace with MVC architecture, Google OAuth, and an ML recommendation system‣ Developed swiping interface with JavaScript, Bootstrap, PostgreSQL database, and Cucumber automated testing‣ Implemented course filters with Faker seeding, Kaminari pagination, PWA functionality, and Heroku deployment	
Salad Scheduling Python, AWS (Lambda, EC2, API Gateway), JavaScript	August 2024 - December 2024
<ul style="list-style-type: none">‣ Designed a Python scheduling algorithm, reducing shift allocation time by 95% from 5-6 hours to 10-15 minutes‣ Built a responsive frontend and lean backend with Lambda, EC2, and API Gateway to eliminate server maintenance‣ Deployed production-ready AWS app with automated testing and monitoring, serving 10+ NU admin staff weekly	