

Genna Lipkin

Software Engineer
Mathematician

Experienced mathematician and software engineer with a passion for space. Offering expertise developing internal web applications with responsive and fully ADA compliant UIs. Holds a Bachelor's in mathematics and is pursuing her graduate certificate in astronautical engineering at University of Southern California. Open to any product management, business analyst, UI/UX design, or spacecraft testing opportunities.

CONTACT



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Website & LinkedIn

genlipkin.github.io

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EDUCATION

Graduate Certificate in Astronautical Engineering

University of Southern California

Exp. Graduation: 12/2021 GPA: 3.7

Bachelor of Arts in Mathematics

CUNY - Brooklyn College 2016 – 2020

Honors: *magna cum laude* GPA: 3.75

SKILLS

- **Proficient in** C++, SQL, MATLAB, React, Angular, Flutter, HTML/CSS
- **Experienced in** Java, Spring Boot, Private Cloud Services
- **Tools:** Git, Jenkins, Atlassian Product Suite (Jira, Bitbucket, FishEye, Crucible), Visual Studio, IntelliJ

RELEVANT COURSES

Advanced C++, Data Structures, Database Systems, Principles of Robotics, Numerical Analysis, Linear Algebra, Applied Multivariate Calculus, Orbital Mechanics, Space Environments & Spacecraft Interactions

AWARDS

- 2019 Carl B. Boyer Memorial Award in the History of Mathematics
- 2016 CUNY Math Contest Finalist

WORK EXPERIENCE

Raytheon Intelligence & Space

Software Engineer / June 2020 - Present

- Enabled users of multi-intelligence ABI (activity-based intelligence) program to mark and track special interests and locations
- Integrated new placemark feature with existing capability baseline using Angular, created data models and wrote unit tests in TypeScript, and utilized Jenkins as part of CI/CD pipeline and DevOps process
- Optimized front-end custom query language and updated client-side filters for user efficiency and clarity
- Obtained CompTIA Security+ certification
- *Current Security clearance (TS/SCI)*

JPMorgan Chase

Software Engineering Intern / Summer 2019

- Full-stack development of self-service UI to allocate dev environments using React, Java, and Spring Boot framework
- Reduced wait times for environment allocation by an estimated 90%
- Created front-end wireframes in AdobeXD for internal engineering teams
- Integrated application with firm's internal SSO authentication
- Deployed application on JPMC's internal cloud platform
- Audited & presented to Executive Director and development team on platform security (SQL & XML injections, whitelisting, buffer overflow)

JPMorgan Chase

Technology Analyst (Intern) / Summer 2018

- Developed fully ADA compliant internal web application using Angular, Java, and Spring Boot framework
- Demoed final deliverables to CIO of Corporate Technology
- Created micro-services that connect to H2 database using Hibernate framework
- Managed development work using Scrum and tracked progress with Jira

OTHER PROJECTS

Causmic

Founder / July 2019 - March 2020

Created a nationwide program to pair nonprofits in need of technical help with teams of computer science students

- Y Combinator Startup School 2019 graduate
- Consulted directly with nonprofits to develop sustainable, scalable technical solutions