

# Samir Jain

[samirjain.code@gmail.com](mailto:samirjain.code@gmail.com) | <https://www.linkedin.com/in/samirjain93> | <http://www.samir-jain.com/> | Bay Area, CA  
*Seeking Front End Web Developer roles in a fast-paced company where I can utilize my software engineering and accessibility skills to improve public services or healthcare*

## TECHNICAL SKILLS

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- Fluent: JavaScript, Node.js, React, Express, Postgres SQL, HTML/CSS, Git, SolidWorks CAD
- Proficient: Material UI, Mocha, JMP, SolidWorks FEA (Finite Element Analysis)
- Knowledgeable: Java, Python, C, ADK, LabView, Minitab, SharePoint

## EXPERTISE

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- Software: Full-stack Web Development, Object Oriented Programming, Computer Architecture, CPU Design, Network Protocols, Mobile App Development, Web Accessibility
- Biomechanical: Design Control, Fatigue, 3D Design/Analysis, Class 3 FDA, Test Development, Fixturing
- Leadership and Community: Agile Project Management, Deaf Studies, American Sign Language

## KEY PROJECTS AND RESULTS

*Project Links on <https://samir-jain.com/>*

### **Manhattan Trail – Educational Adventure Game**

**Feb. – Apr. 2021**

- Manhattan Food themed Oregon Trail - Players journey across Manhattan to encounter food themed minigames before reaching a food shelter to donate food and learn about reducing food waste.
- NERP stack: Node.js, Express, React, Postgres. Utilize Google Maps API, ORM, JWT, OAuth2
- Drove User Experience Board, managed a team of 4 over 2 months, reviewed code using agile methods
- Designed multi-relational database management to scale up with users, game states, and scores

### **eCommerce Website Application - Winter Gear**

**Feb. 2021**

- Customers can browse, add items to cart, and check out via Stripe. Guest carts can carry over to persistent OAuth2 login. Admin can fully create, read, update, and delete items in catalog using RESTful API.
- Managed 3-person team over 3 weeks.
- Built up front end with React/Material UI, with considerations for mobile view and accessibility.

### **Is it Recalled? – Five-day solo Hackathon Website Application**

**Feb. 2021**

- Developed an app to utilize multiple public API to scan food products and display recalls from FDA.

### **Abbott Structural Heart – Product Development Engineer of [MitraClip](#)**

**Dec. 2017 – Sept. 2020**

- Achieved FDA approval and EU CE Mark on MitraClip G4.
- Leveraged 3D printing to align departments to improve test development, fixturing, and implant design.
- Drove investigations of the failure modes of returned Implants utilizing MicroCT and 3D Mesh analysis to improve regulatory responses and development of the next Implant generation.
- Proved MitraClip 15-year lifetime through fatigue testing; ISO5910.
- Conducted market review of surgical repair and performed dissection to build knowledge base
- Persuaded leadership and drove migration to cloud storage to speed up design and regulatory writing

### **Gallaudet University Genetics Lab – [Software Development Internship](#)**

**May. 2014 – Aug. 2014**

- Developed Python simulations of deaf populations over generations to test impact of homogenous mating on genetic frequencies
- Analyzed big data with genetic statistical tests and compared with previous academia
- Peer reviewed and published. Presented at UMD Symposium

## EDUCATION

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Fullstack Academy	New York City – Remote
Software Engineering Immersive	Sept. 2020 – Apr. 2021
Georgia Institute of Technology	Atlanta, GA
M.S. Biomedical Innovation and Development	Aug. 2016 – Jul. 2017
Georgia Institute of Technology	Atlanta, GA
B.S. Biomedical Engineering	Aug. 2012 – May. 2016
Minor Computer Science	