

Parth Mehrotra

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Experience

2019–Present **Gemini**, Exchange Engineer.

Gemini is a cryptocurrency exchange with a focus on serving institutional customers. Institutional customers demand high availability, low latency, and the ability to store large amounts of digital assets.

- Growth Team - I focussed on unifying Gemini's data acquisition strategy, across teams, products, and platforms. Unifying these tools vastly improved the quality of data available to leadership
- Gemini Pay - Engineered a backend enables Gemini's 2M+ customers to spend their crypto at several businesses across the country.
- Exchange Team - Rewriting the matching engine to support lower latency, and higher availability. Develop performance oriented components in a fault tolerant distributed system.

2018–Present **Lockbook.app**, Founder.

Lockbook is an end to end encrypted document editing and sharing platform.

- With our focus on quality we create native applications for each platform. To maximize code re-use, I created a "Core" library written in Rust that clients can use via FFI/JNI.
- Requires proficiency with C#, Swift, Kotlin, and Rust.
- AES & RSA cryptography primitives are used for encryption, key sharing, authentication, and signature verification.
- All work is fully open source (github.com/lockbook/lockbook). Started as a script to encrypt and decrypt a folder and organically grew as more people began to share the vision of a better place to store thoughts and collaborate with others.

2018–2019 **JP Morgan**, Asset and Wealth Management: Model Management, Full Stack Engineer.

The Model Management creates tools for portfolio management. The tools help advisors craft portfolios that meet the constraints of our clients.

- Used React, Spring, OracleDB for general Full Stack development. Worked on tasks that helped our stores of state stay up to date with various streams of market information.
- Was appointed Scrum Master for the Model Management development team. Ran sprint planning, retrospectives, daily stand-ups and other scrum rituals. Key objective was to control drift between goals and outcomes.

2015–2018 **SAP SE**, Digital Interconnect Group, UI Technical Lead.

The Digital Interconnect group writes software that helps Telco providers interoperate globally. We leveraged these relationships to build tools that perform market research, help businesses message consumers, and perform SMS 2FA.

- Progressed from an internship to a part time role, then transitioned into a full-time Technical Leadership position during senior year at Rutgers.
- Performed a wide array of functions as a full stack engineer, understood the unique problems associated with massive datasets (petabytes). Built custom tooling for geospatial presentation of data.

2010–Present **Multiple other projects**, including published apps, startups, video content and a pending patent, are listed at parthmehrotra.com.

Academics

2014–2018 **Rutgers University, New Brunswick**, B.S. Computer Science.

- Coursework in Data Structures, Algorithms, Computer Architecture, Systems Engineering, Principals of Programming Languages, and Internet Technologies.
- Independent Study on Autonomous Vehicles with Prof. Peter Jin (Intelligent Transportation Systems) and Prof. Kostas Bekris (Artificial Intelligence).