

# Armin Sabouri

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## EXPERIENCE

### **Open Sats Grant Recipient**—*Software Engineer & Researcher*

March 2025 - Present

Conducting research and development in Bitcoin privacy, with a focus on the Payjoin protocol (BIP 77/78) through contributions to the Payjoin Dev Kit project. Expanding the protocol to support multiparty coordination and developing a suite of privacy metrics to rigorously evaluate and strengthen privacy guarantees.

### **Botanix Labs** — *Co-Founder and CTO*

June 2023 - March 2025

Led the design, development, and deployment of a Bitcoin EVM-equivalent sidechain project. Hired and managed a team of engineers, driving both research and implementation. Architected and oversaw core components from project inception through production launch.

### **Casa, Boston, MA**— *Software Engineer*

June 2020 - June-2023

Maintain and improve Casa's Bitcoin multisig coordinator service.

Architect, develop and deploy a web application responsible for aggregating signatures from hardware wallet cosigners.

Design and Develop a self-custody lightning wallet on self-hosted LSP infrastructure.

Develop the user facing SASS web application and backend supporting several payment providers including BTC Pay, Stripe, Apple's Store Kit, Google Play.

Design and build various components of an ETH multisig application, including a hot wallet for managing smart contract interactions and an EOA Android wallet.

Develop and maintain a data pipeline and data warehouse solution hosted on AWS using terraform, Apache Spark, AWS Glue, S3, and Redshift.

Design, implement, and manage a microservices architecture on AWS using AWS ECS, ECR, and Lambda functions to build and deploy multiple microservices.

### **NormaTec, Boston, MA**— *Embedded Systems Engineer*

Jan 2019 - June 2020.

Design, develop, implement, and test embedded software in various soft

## SKILLS

Language Skills: Rust, TS, JS, Python, C#, C, Embedded C++, Bash.

### Technologies:

.NET, Xamarin, Git, Node.js/Express, Flask, Vue, JQuery, React, React Native, GCP, AWS, Terraform

Hardware Protocols: I2C, SPI, UART, RS232, USB, BLE

Database: SQL Server, MySQL, MongoDB, RocksDB

Data Science: Proficient in data analytical libraries in Python (including Pandas, Scikit Learn, Numpy, Keras coupled with Tensorflow). Apache Spark

Operating Systems: Linux, Mac OS, FreeRTOS

real-time medical devices using C and C++ on top of RTOS's such as FreeRTOS.

Develop multiple versions of a mobile application using React Native. And developed its corresponding Node JS backend service.

Develop the user facing e-commerce web application that constitutes ~75% of business revenue, using React, Redux, SCSS, and Typescript. Develop the e-commerce RESTful API service in .NET, EF and MySql

Architect, develop, and launch an application to factory lines, designed to calibrate and test medical devices before they enter the field in .NET

### **MIT, Cambridge, MA— Full Stack Engineer**

Oct 2017 - Jan 2019

Design and develop a web application for students, faculty, and staff to manage departmental and personal resources such as student forms, departmental policies and intranet to manage space. Built using PHP7, MySQL, JQuery and CSS3.

### **Bluum, Boston, MA— Full Stack Engineer**

Summer 2018 (Part-time Contract)

Contributed to several front end applications using React and Redux. Led the development of several RESTful API services using PHP/Lumen. Managed deployment on Google Cloud Platform.

### **Reggora Inc, Boston, MA — Full Stack Engineer**

June 2017 - September 2017

### **Massachusetts General Hospital, Boston, MA— Data Science Intern**

May 2017- Oct 2017

## **EDUCATION**

### **Boston University, Boston, MA — Computer Science, BS**

Sep 2016 - May 2019

### **Suffolk University, Boston, MA — Computer Science, BS**

Sep 2015 - May 2016 (Transferred)

## **RECENT ACTIVITIES**

Please visit my website for my latest work

### **BIP-347 - OP\_CAT in**

#### **Tapscript**

April 2023

### **Munstr- MIT Bitcoin**

#### **Hackathon Winner**

April 2023

### **NoLooking - 3rd place**

#### **Bolt.fun Lightning Hackathon**

Sep 2022 - Dec 2022

### **Boston BitDevs Co-Host**

Sep 2022 - Current

### **ChainCode Bitcoin Protocol**

#### **Development Seminars**

Sep 2022 - Nov 2022

### **Onion78 - MIT Bitcoin**

#### **Hackathon Winner**

April 2021

### **Chain Case - Bitcoin Privacy**

#### **Focused Wallet Open Source Contributor**

Jan 2020