apatin@seas.harvard.edu

 \square



TECHNOLOGIES -

Vue.js • React.js • Web3.js

Node - Av 'S (Se til ed) - Dock-

er • Kubernetes • MongoDB

Hyperledger • Git • Linux

Truffle • TensorFlow • Scikit-

learn • Selenium • Geth

DESIGN =

Sketch • Illustrator • Photoshop

Figma • Sass/CSS • HTML

EXPERTISE •

Blockchain • Ethereum • PaaS

Signal Processing • Machine

Learning • Blockchain • Natural

Language Processing • Control

Systems • Embedded Systems

LANGUAGES —

JavaScript/ES7 • TypeScript

Python • Golang • C • C++

C# • Java • Solidity • Obj-C

AWARDS —

- Harvard Innovation Fellow
- Slavin Foundation Fellow
- 'The Investment' Finalist
- PennTap Learning Factory Grant
- Erickson Discovery Grant
- Whitman Endowment
- 1st Place at HackPSU

FREE TIME? =

Music (Guitar, Clarinet, Piano,

Production) • Tennis (USTA 5.0)

EDUCATION =

Harvard University Blockchain Innovation Fellow

September 2018 –

Penn State University B.S. Computer Science

Class of 2018

PROFESSIONAL EXPERIENCE

Squarelink.com: Co-founder, CTO

Sept 2018 -

- Built the first non-custodial cryptocurrency wallet allowing users to sign in, sign transactions, and recover accounts with just an email and password
- Drafted patent application and recieved allowance from USPTO on claims for "Technologies for Private Key Recovery in Distributed Ledger Systems"
- Architected and developed a standard OAuth 2.0 provider for 3rd party applications to interact with Squarelink users via our REST API
- Wrote and published the "squarelink" npm package, allowing DApps to install Squarelink as a standard Web3 provider in web3.is
- Created a developer console for 3rd party developers to register and manage applications with Squarelink along with documentation for Squarelink's API and SDK
- Facilitated the integration of Squarelink's SDK into 50+ applications including Totle Swap, Ethfinex, Pool Together, 1inch Exchange, and Web3Connect
- Designed Squarelink Event Pass, a secure alternative to Burner Wallet to help quickly and easily onboard non-traditional users into the crypto space.
- Launched a PoC for Event Pass at ETHBoston to provide Point-of-sale tools for vendors to accept 1700+ crypto payments from 500+ attendees (\$20,000+ in value)

Musical Minds: Founder, CEO

Nov 2015 - Sept 2017

- Directed 20 employees in the creation of a music-for-wellness recommendation engine powered by proprietary brainwave-sensing headphones
- Developed a Python REST API using AWS ElasticBeanstalk, AWS Cognito, Sanic, DynamoDB, and Apache Spark for collaborative filtering-based music recommendations
- Designed EEG biopotential amplifiers using Multisim and developed a DWT/SVM mental state classifier using C++/Tensorflow embedded on a TI-CC430 MCU
- Leveraged music streaming APIs and SDKs for in-app music playback on iOS and Android
- Garnered \$21,000 in non-equity financing through several grants, competitions, and awards

Microsoft: Student Partner to Penn State

Aug 2015 - May 2018

- Organized 23 tech workshops on MS developer tools for college students
- Mastered tools including Azure, Project Oxford, Windows IoT toolkits, etc.
- Volunteered at public schools through "Hour of Code" to teach young students how to code

Optum: Software Development Intern

May - Aug 2017

- Developed a natural language understanding API and integrated it with complex internal business tools to simplify navigation using Flask, RASA, SPARQL, Docker, and ElasticSearch
- Built an AngularJS UI for centralization of UnitedHealth patient information between doctors

Lunar Lion: Guidance, Navigation, and Controls Lead Engineer

Apr 2015 - Jan 2016

- Directed 35 students in the development of five software/hardware subsystems including flight software, ground controls, modelling and controls, systems testing, and visual guidance
- Interfaced with craft sensors using C/C++ embedded on Arduino and RTD controllers
- Prototyped an Arduino and C#/WPF Ground Control Station for command transmissions
- Implemented a monocular surface reconstruction algorithm leveraging parallax motion of lunar Resume built with HTML & CSS surface features and spline interpolation for landing sequence adjustment using C++/OpenCV