



# Mark Phillips

BLOCKCHAIN ARCHITECT | SOLUTIONS & SOFTWARE ARCHITECT | ENGINEERING MANAGER

Seattle, Washington, United States

☎ (+1) 760-705-7572 | ✉ mark.phillips@protonmail.com | 📷 pleasemarkdarkly | 🌐 markephillips

## Summary

A dedicated, highly skilled, motivated, & seasoned **Software Architect** with exceptional multi-tasking and organizational skills with **+20** years of practical experience in the field of Success Leading R&D, Technical, and Engineering Innovation for High-Growth Organizations. With strong expertise in Information Technology consulting, Architecture & Design, Custom Development, Integration, Project Life-cycle, Initiating Transformative Programs, Emerging Technologies, Enterprise Architecture. Integrally involved in direction, development and corporate growth. Drive high-return IT initiatives across all Business Verticals (BU). Currently working in a **Law firm** as a **Blockchain, Solutions Architect & Senior Developer**. Proven experience Developing, Deploying & Evaluating Systems aimed at improving quality & efficiency, delivering on time & within budget.

## Highlights

<b>OPERATIONS</b>	Company & Product Budgets, HR, Contracts, Executive & Board Presentations, SEC Reporting.
<b>BUSINESS</b>	DevLOI, Strategic Partnerships, Co-Development, Co-Marketing, R&D Collaborations, Evangelism.
<b>CONTENT LICENSED</b>	Warner Video, Paramount Home Video, Sony Music (EMI), BMG, Universal Music, Orchard.
<b>FUND RAISING</b>	Angel Investment of <b>\$5m</b> , Series A of <b>\$55m</b> .
<b>DEVELOPMENT</b>	TS, C++ & Python, SQL, Git, Docker-compose, JS & NodeJS, HTML & CSS, Bash, LaTeX
<b>BLOCKCHAIN</b>	Bitcoin, Ethereum, Truffle, Hardhat, Chai, Waffle, ethers.js, web3
<b>DevOps</b>	CGP, AWS, & Digital Ocean. Github Actions & CircleCI.
<b>EMBEDDED SYSTEMS</b>	Linux, eCos, ARM, MIPS, SH3.

## Experience

### BLOCKCHAIN, SOLUTIONS ARCHITECT & SENIOR DEVELOPER

2020 – Present

LAW FIRM

Bellevue, WA, USA

- **Technologies:** TS, Node, Solidity, Hardhat, ethers.js, Firebase, Docker, MongoDB, GCP, Twilio API, Sendgrid API, Figma
- Successfully delivered Ethereum Smart Contracts for Tokens, Sale, and its Distribution.
- Developed multi-signature contract library with mobile browser support using Svelte & Firebase.
- Successfully delivered several GCP hosted applications on-time, under budget, prior to & through the pandemic.
- Developed back-end APIs for communication with blockchain and smart contracts.
- Implemented internal credit & background research application using data feeds from the credit agencies.
- Subsequently negotiated and executed favorable licensing terms to client.
- Developed client management IVR and outbound voice-based questionnaire application.
- Authored system architecture, designed user interface, and lead team of engineers.
- Authored multiple forensic computer expert opinions for legal cases.

### BLOCKCHAIN ARCHITECT

2019 – 2020

NVMI BLOCKCHAIN & PLATON.NETWORK

Hong Kong, Hong Kong

- **Technologies:** Go, Python, Bash, Docker, Solidity, LaTeX
- Successfully created & implemented strategy for community support for ATON, PlatON's token.
- Examined & designed block sizes for PlatON PoS consensus algorithm.
- Conducted in depth analysis of leading consensus algorithms, hybrid PoS, and PoW blockchains.
- Managed the prototype of multi-party computation implementations on ARM64.
- Performed editing of all English website content, marketing, and investor materials, GitHub documentation.
- Participated in Ethereum Foundation joint development & collaboration meetings.
- Evaluated & delivered reports on PlatON whitepaper and economics paper.
- Gather, document, & review industry white papers, smart contracts, and crowd funding schemes.
- Conducted code reviews with PlatON's blockchain testnet in Python, Go, & Docker-compose and identified key economic & technical issues. And evaluated worldwide legal disclosures and reporting requirements.
- Analyzed & contributed critical feedback for marketing, investor, and developer community materials.
- Authored numerous internal papers regarding architecture, design, cryptographic processing requirements.
- Presented to executive's analysis of the Ethereum Platform architecture & technologies.

### SOLUTIONS ARCHITECT

2017 – 2018

A DOT CORPORATION

Bellevue, WA, USA

- **Technologies:** C++, TS, C, JS, SQL, Docker, Solidity, LaTeX
- Developed research & reports for Northwest Venture firms evaluating investments in Ethereum, Bitcoin, and Blockchain.
- Contributed to macOS Artifact Parsing Forensic Software Tool.
- Negotiated ransomware settlement for Chinese manufacturer.

- Developed courtroom and deposition audio transcription system using AWS, Google ML.
- Developed court records ingest system for law office internal client management software.
- Developed law firm's court/client tracking software and adversarial background search management web application.
- Developed smart contract templates for arbitrary bounty, consulting services.
- Developed iOS, Android application for consolidating location data for forensic analysis.
- Manufactured radio monitoring device for Microsoft Research.
- Developed digital audio, video compression, encryption, usage format for Secure Digital licensed by Toshiba Corporation.

## DIRECTOR OF PATENT LICENSING

2013 – 2017

PLAYLIST LICENSING, LLC.

Seattle, WA. USA

- **Technologies:** C++, TS, JS, Node, Excel
- Monetized company's intellectual property through licensing agreements.
- Created internal work-flow for customer on-boarding and subsequent licensing of company's patents.
- Employed front-end and back-end e-commerce site for managing licenses.
- Managed company's legal activities.
- Developed all corporate financial revenue modeling and legal budgets, achieving on budget quarterly reports to the board of directors.
- Developed an automated patent licensing scheme.
- Licensed Intellectual agreements of over \$5M revenue.
- Consulted with hardware manufactures to integrate embedded software.
- Designed and developed C++ source code for embedded digital media players.

## SOFTWARE ARCHITECT

1998 - 2012

MICROSOFT CORPORATION

Bellevue, WA. USA

## SOFTWARE ENGINEER

1996 – 1998

SALTMINE CREATIVE

Bellevue, WA. USA

## PRODUCTS & PROJECTS

ERC20, Token Sale, Hardhat TS  
 QR Code Reader/Generator Svelte Component  
 Slushpool monitor xbar plugin  
 FireDialer IVR Open Source  
 MEOW Token, OpenZeppelin  
 EcoCarCafe Customer Management System  
 Natasha Pankina Illustrations  
 macOS Artifact Parsing Tool  
 U.S. Security and Exchange Commission NLP Analysis  
 GreenPlay Audio Video Format  
 Starbuck's Overhead Music and Hear Music Solution  
 MSN Direct Watch/Microsoft SPOT  
 Iomega Hipzip MP3 Player  
 Transworld Listening Viewing Sampling Station  
 Digital Audio Embedded Operating System  
 Fixed Point MPEG II Layer 3 Decoder  
 Glove Grasp, Java SDK Gesture Recognition

<https://bit.ly/3q6gA32>  
<https://bit.ly/3iFqA1s>  
<https://bit.ly/3sNcxJq>  
<https://bit.ly/2TF0Gk4>  
<https://bit.ly/2UelfUN>  
<https://bit.ly/2TZoDZx>  
<https://bit.ly/3iJTRYJ>  
<http://bit.ly/2QdfTTY>  
<https://bit.ly/2SvrW4k>  
<https://bit.ly/3cL4d6Q>  
  
<https://bit.ly/35pFSzx>  
<http://bit.ly/2Mjr0tp>  
<https://bit.ly/2Ub3CoL>  
<http://bit.ly/2Mjr0tp>  
<https://bit.ly/3xp2qwb>  
<https://bit.ly/3voEJTv>

## Education

### University of Washington

1996

B.A. IN COMPARATIVE HISTORY OF IDEAS

Seattle, Washington

- Concentration in Architecture and Computer Science.
- Associate researcher at the Human Interface Technologies Lab

### 3D Palette: A Virtual Reality Content Creation Tool

1997

BILLINGHURST, S. BALDIS, L. MATHESON, M. PHILLIPS.

Lausanne, Switzerland

- Virtual Reality Software and Technology Conference
- Association for Computing Machinery's Special Interest Group on Graphics and Interactive Techniques

## Patents

Issued **US 7,779,064 B2**, Method and System for Efficient and Dynamically Digitally-Encoded-Info. Distribution Aug. 2010  
 Issued **US 7,667,123 B2**, System And Method For Musical Playlist Selection in a Portable Audio Device Feb. 2010  
 Issued **US 7,574,272 B2**, System And Method For Data Transfer Optimization in a Portable Audio Device Aug. 2009

## Extracurricular

70.3 **Augusta Ironman**, Augusta, GA. USA Sept. 2017  
 140.6 **Santa Rosa Ironman**, Santa Rosa, CA. USA July 2017  
 70.3 **Kona Ironman**, Kona, HI. USA June 2017  
 70.3 **Oceanside Ironman**, San Diego, CA. USA Apr. 2017