Mark **Phillips**

BLOCKCHAIN ARCHITECT | SOLUTIONS & SOFTWARE ARCHITECT | ENGINEERING MANAGER

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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

OPERATIONS	Company & Product Budgets, HR, Contracts, Executive & Board Presentations, SEC Reporting.
BUSINESS	DevLOI, Strategic Partnerships, Co-Development, Co-Marketing, R&D Collaborations, Evangelism.
CONTENT LICENSED	Warner Video, Paramount Home Video, Sony Music (EMI), BMG, Universal Music, Orchard.
FUND RAISING	Angel Investment of $5m$, Series A of $55m$.
DEVELOPMENT	TS, C++ & Python, SQL, Git, Docker-compose, JS & NodeJS,HTML & CSS, Bash, LaTeX
BLOCKCHAIN	Bitcoin, Ethereum, Truffle, Hardhat, Chai, Waffle, ethers.js, web3
DevOps	CGP, AWS, & Digital Ocean. Github Actions & CircleCI.
EMBEDDED SYSTEMS	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
- Example Solidity contracts and tests: https://bit.ly/3gBr3Pr.
- Successfully delivered Ethereum Smart Contracts for Tokens, Sale, and its Distribution.
- Developed multi-signature contract library with mobile browser support using Svelte & Firebase.
- 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 blocksizes 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
2008 – 2021

ERC20, Token Sale, Hardhat TS	*https://bit.ly/3q6gA32*
QR Code Reader/Generator Svelte Component	*https://bit.ly/3iFqA1s*
Slushpool monitor xbar plugin	*https://bit.ly/3sNcxJq*
FireDialer IVR Open Source	*https://bit.ly/2TF0Gk4*
MEOW Token, OpenZeppelin	*https://bit.ly/2UelfUN*
EcoCarCafe Customer Management System	*https://bit.ly/2TZaDZx*
Natasha Pankina Illustrations	*https://bit.ly/3iJTRYJ*
macOS Artifact Parsing Tool	*http://bit.ly/2QdfTTY*
U.S. Security and Exchange Commission NLP Analysis	*https://bit.ly/2SvrW4k*
GreenPlay Audio Video Format	*https://bit.ly/3cL4d6Q*
Starbuck's Overhead Music and Hear Music Solution	
MSN Direct Watch/Microsoft SPOT	*https://bit.ly/35pFSzx*
Iomega Hipzip MP3 Player	*http://bit.ly/2Mjr0tp*
Transworld Listening Viewing Sampling Station	*https://bit.ly/2Ub3CoL*
Digital Audio Embedded Operating System	*http://bit.ly/2Mjr0tp*
Fixed Point MPEG II Layer 3 Decoder	*https://bit.ly/3xp2qwb*
Glove Grasp, Java SDK Gesture Recognition	*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*