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|  | **Mark Phillips**  Hong Kong, Hong Kong  mark.phillips@protonmail.com • (+86) 130-43437363  linkedin.com/in/markedphillips/  Personal Details:  September 13, 1974 • United States Citizen • Male • Single |  |

**CTO | VP of Research & Development Profile**

*20+ years’ success leading R&D, technical, and engineering innovation for high-growth organizations*

Highly skilled Chief Architect and Subject Matter Expert with proven expertise in information technology consulting, architecture and design, custom development, and integration. In-depth experience in project lifecycle management, 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). Collaborate closely with internal and external stakeholders. Trained leader able to mentor and motivate large global teams to meet – and exceed – corporate goals. Published author of multiple Enterprise IT leadership, strategy and best practices papers. Proven experience developing, deploying and evaluating systems aimed at improving quality and efficiency, delivering on time and within budget. Highly skilled aligning end-user needs with long-term resolutions to complex IT challenges.

Highlights of Expertise

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| * Strategic & Tactical Infrastructure Planning * ERP Implementation & Optimization * Vendor & Supplier Relationship Management * Contract Development / Negotiations * Full Life Cycle Project Management | * Business-driven Technology Organizations * Multimillion-dollar P&L Accountability * Management Development Programs * Exceeding Service-level Agreements * Regulatory Compliance |

**Career Experience**

NVMI Blockchain and PlatON.Network, Shenzhen, China and Hong Kong, Hong Kong

Technologies: Go, Python, Docker, BASH, Solidity, LateX

*Structured and launched crowd funding website, Solidity smart contract and issued ERC-20 compliant tokens.*

**BLOCKCHAIN ARCHITECT** (2019 to Present)

Create and implement strategy for community support for ATON, PlatON’s token. Examine and design blocksizes for PlatOn PoS consensus algorithm. Conduct in depth analysis of leading consensus algorithms, and hybrid PoS and PoW blockchains. Manage the prototype of multi-party computation implementations on ARM64. Perform editing of all English website content, marketing, and investor materials, GitHub documentation. Participates in Ethereum Foundation joint development and collaboration meetings. Evaluate and deliver reports on PlatON whitepaper and economics paper. Gather, document, and review industry white papers, smart contracts, and crowd funding schemes.

* Conducted code reviews with PlatON’s blockchain testnet in Python, Go, and Docker-compose and identified key economic and technical issues.
* Established community communication channels and start-up investment strategies/processes as well as communicated with an all Chinese development team.
* Evaluated worldwide legal disclosures and reporting requirements. Analysed and 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 and technologies.

A DOT Corporation, Bellevue, WA. USA

Technologies: Python, CUDA, MySQL, Docker, Bash, Solidity, JSON, Ruby, C++, AWS, LateX

*Boutique consulting company with customers from Microsoft Research, Starbucks, Seattle VC. Manufactured hardware products for Microsoft at Flextronics. Designed, manufactured, and deployed a nationwide wireless monitoring system for Microsoft Smart Watch. Formed intellectual property strategy including patent development, pooling, and licensing.*

**SOLUTIONS ARCHITECT** (2017 to 2019)

Contributed to a number of open source projects. Designed simple Javascript blockchain. http://bit.ly/2Zjg304 Created Deep Q-Learning Game player. Contributed to open source macOS Forensic Software Tool, <http://bit.ly/2QdfTTY> Aggregated and automated the parsing of cryptocurrency related blockchain whitepapers. http://bit.ly/35Sb2y7 Developed courtroom and deposition auto transcription system using AWS/Google ML services. <http://bit.ly/35TLO2e> Delivered expert testimony analysis of bit torrent and copyright infringement cases. Created a comprehensive skip trace aggregator, legal brief automation, and case management tools for law firm. Researched and prepared legal briefs regarding various technology statutes.

* Adapted a number of complex problems related to developing software and providing a report to client/court.
* Signed licensing agreement for software with Starbuck for the in-store overhead music system.
* Signed over $8M in revenue from Microsoft Research, Starbucks, and other fortune 100 companies.
* Established GPS extraction tools from Google and Facebook to exonerate a defendant. Delivered expert testimony related to GPS tracking of a defendant.

Playlist Licensing, LLC., Seattle, WA. USA

Technologies: Python, MySQL, Docker, Bash, AWS, LateX

*Acquired high value company’s intellectual property through effective negotiations.*

**DIRECTOR OF PATENT LICENSING** (2013 to 2017)

Marketed, negotiated, and licensed company intellectual property. 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. Liaised with attorneys regarding tiered licensing schemes. Developed market opportunity, financial modelling and budget analysis.

* Developed an automated patent licensing system and a well-researched patent licensing scheme.
* Licensed Intellectual agreements of over $5M revenue.

Additional Experience

**DIRECTOR, SOFTWARE ARCHITECT** ▪ MetaWallet, Inc., Bellevue, WA. USA

**DIRECTOR, CHIEF TECHNOLOGY OFFICER** ▪ Media on Demand, Inc., Seattle, USA

**CTO, SOFTWARE ARCHITECT** ▪ A Dot Corporation, Seattle, WA. USA

Products and Projects

<https://www.natasha-pankina.com> | E-commerce | Full Stack Developer

<https://ecocar.cafe> | Facebook Ads | Marketing Consultant

World Domination MEOW ERC-20 Token | Blockchain | Blockchain Developer

macOS Artifact Parsing Tool | Open Source Forensic Software | Back-End Developer, Expert Forensic Analyst

U.S. Security and Exchange Commission NLP Analysis | Hedge Fund Web App. | Architect, Full Stack Developer

GreenPlay Audio Video Format | Format & Rights Management Development | Architect, Business Development

MSN Direct Watch/Microsoft SPOT | Consumer Electronics | ASIC and Manufacturing | Architect

Iomega HipZip/MP3 Player | Operating System Licensor | Architect | http://bit.ly/2Mjr0tp

Cirrus Logic Digital Audio MP3 Player Development System | Embedded Processor Development Partner

**Education & Credentials**

University of Washington, Seattle, Washington

**BACHELOR OF ARTS IN COMPARATIVE HISTORY OF IDEAS - Architecture and Computer Science**

***Technical Proficiencies:*** Operations: Company/Product Budgets, HR, Contracts, Executive/Board Presentations, SEC Reporting | Business: DevLOI, RFQs, 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 | Product/Program Mgmt: Excel, Open Project, Git, Agile PLM, JIRA and Microsoft Project | CMS: Nextcloud, Wordpress, Jekyll, LateX | Ethereum Tools: Solidity, Geth, Truffle, CLE, Ethereum Virtual Machine and Remix | Development: VS Code, C++, C, SQL, Go, Python, Docker-compose, Javascript, HTML, CSS, Bash, LaTeX, Git | DevOps: AWS, DigitalOcean, Docker-machine, Swarm, Kubernetes, ELK | Embedded Systems: Linux, eCos, Armbian, Xilinx | ASIC, ARM Design, Manufacturing