

John Woods

ENGINEER, ARCHITECT, APPLIED CRYPTOGRAPHER, LEADER

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postquantum.dev

I am a dynamic, highly motivated individual, highly focused on execution & product, leveraging strong interpersonal skills with meticulous attention to detail. With extensive experience across a range of technological and financial silos, I'm looking for a challenging role to further progress my career.

Key Skills

- Highly experienced in a significant range of financial & technical disciplines (Enterprise Architecture, Software Development, Derivatives, FX, Business Analysis, Operations)
- Expert in Cryptographic Engineering (Sym, Asym, Prime, ECC)/Blockchain (BTC, CryptoNote, MimbleWimble, ZKP/SNARKS/STARKS), Post Quantum schemes
- Expert in a range of programming languages (Swift, C/C++, Objective C, Java/C#, Python, Rust)
- Contribute at a code level to open source cryptocurrency projects
- Skilled people manager/major change management experience
- Adept Stakeholder/Client relationship management
- Expert in iOS/macOS development stack & APIs
- Deep knowledge of SDLC/Software design paradigms and best practice
- Deep knowledge of CI/CD, Containerisation, K8s, Terraform, AWS, GCP, AZR
- Comprehensive experience with schema design (SQL, Oracle, Mongo, IPFS)
- Strong compliance/Regulatory awareness and implementation (GDPR/PSD2/FedRAMP/FIPS/SOC2)
- Exceptional technological knowledge, emerging tech (resilience, scale, security)

Experience

IO Global, Dublin, IRL / Remote
Director of Architecture - Cardano

October 2021 – Present

Informatica, Dublin, IRL
Senior Security Architect/Applied Cryptographer

February 2020 – September 2021

- Research and live at the bleeding edge of applied cryptography and cryptographic engineering
- Globally led FIPS/FedRAMP compliance process (cryptographic engineering, standard disambiguation, code-level consultation), across all products
- Review and approve all production bound product architectures & solutions
- Founding member of strategic architecture function, eradicating technical debt. Setting standards for global development and design
- Crypto Officer for FIPS compliance
- Oversight and governance of entire cloud portfolio and company-wide infrastructure

ConsenSys, Dublin, IRL**October 2018 – February 2020****Senior Architect/Applied Cryptographer**

- Led development of resilient, scalable & secure enterprise architecture for largest global engagements
- Train senior engineers on emerging crypto engineering and secure smart contract development
- Provide technical sound boarding for development teams
- Drive business development in tandem with Sales team
- Represent the ConsenSys brand as a technical evangelist

Central Bank of Ireland, Dublin, IRL**July 2016 – October 2018****Senior Solution Architect**

- Consistently deliver rigorous design methodology
- Technical lead for Ireland in European Central Bank cryptocurrency R&D
- Review, cost and design optimized solutions based on a thorough understanding of the value
- Management of team development and problem resolution

FENICS (GFI Group), London, UK**November 2012 – July 2016****Senior Product Consultant/Head of Business Analysis, EMEA**

- Provide training on FX Options market, Greek risk and FX derivative trading strategies, explaining risk parameters to Traders at Tier 1 banks
- Developed price/risk models for exotic derivatives (local stochastic volatility modelling)
- Architect appropriate solution for niche client requirements, execute technical presales
- Successfully manage solution development whilst working with multiple stakeholders (Client, Development, QA, IT, Compliance, Legal), during SDLC process

Citi, Dublin, IRL**September 2010 – October 2012**

- **Income Manager (ICSD) / FX Dealer**

BPS, Dublin, IRL**January 2010 – September 2010**

- **Q.A. Engineer**

Ericsson, Dublin, IRL**January 2008 – January 2010**

- **Lead R&D Software Engineer**

Education

Mastering Business Analysis	IRM UK	2015
PEP Modules 1/2/3	Ericsson	2009
Advanced C++/C#	Ericsson	2008
WCDMA Topologies	Ericsson	2008
Bachelor of Engineering (Honours) in Computer & Communications Engineering (2.1)	Dublin Institute of Technology	2004-2007

Leisure Interests

- Developed successful iOS applications (including Bitcoin execution platform, travel utilities)
- Top 2% Stack Overflow contributor globally
- Open source community contributor
- Running, Weightlifting, Football, Rugby, Golf, Food & Wine