

# Conor Scott

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conscott.github.io

## EDUCATION

**Johns Hopkins University**, Baltimore, Maryland, USA

Master of Science in Applied Mathematics (M.S.)

Sep 2011 – May 2014

**Virginia Tech**, Blacksburg, Virginia, USA

Bachelor of Science (B.S.) in Computer Science

Bachelor of Science (B.S.) in Mathematics

Aug 2006 – May 2011

## WORK EXPERIENCE

**Freelance Blockchain Consultant and Developer**

Nov 2017 – Present

- Help companies understand and best utilize blockchain technology
- Develop smart contracts (ETH/NEO/EOS) and integrate cryptocurrency payments
- Provide security models and design architecture for integrating blockchain systems
- Contributing to Bitcoin Core and related projects

**Clevertech**

OTCmarkets.com API Developer - Remote

Oct 2017 – Dec 2017

- Led team of 5 engineers to fully redesign and update API for financial market data, leading to an overall more scalable and responsive system.

Pave.com Lead Engineer - Remote

Sep 2016 – Dec 2017

- Designed and implemented split of monolithic web app into manageable microservices, including necessary data migrations from MongoDB to PostgreSQL
- Dockerized all services and migrated entire deploy / cron processes to Kubernetes cluster with continuous integration via Jenkins / git
- Primary developer for service modeling credit worthiness of loan applicants, intelligently processing 80+ scoring factors into risk-reduced, competitive loan rates.

Genymotion API Developer - Remote

Sep 2015 – Jun 2016

- Implemented microservices for GenyCloud MVP, including android emulator management, licensing, authentication, user profiles, and API gateway.
- Helped implement billing API to replace existing PrestaShop store.

**Johns Hopkins University Applied Physics Lab**

Software Engineer (Associate Professional Staff II) - Columbia, MD

Jun 2011 – May 2015

- Rapid development and prototyping environment delivering advanced mission systems to multiple government agencies with urgent time constraints
- Lead member of video exploitation team focused on providing real-time encoding, decoding, storage, dissemination, and exploitation capabilities for military grade optical sensors
- Developed low-level command and control interfaces to optical sensors and radar, building algorithms for automated detection and tracking of moving targets
- Real-time integration and correlation of multiple data sources (radar, video, electronic) leading to full situation awareness for field of regard.
- 600+ hours experience on site (80+ hours in military aircraft) working directly with client and sensor operators to provide delivery, training, maintenance, and feedback for deployed systems
- Two achievement awards (2013,2014) recognizing competency and effort in meeting needs of client

**International Business Machines (IBM)**

Extreme Blue Intern - Austin, TX

May 2010 – Aug 2010

- Helped create a run-time option for the Linux B-tree file system (btrfs) that caches frequently accessed files to solid state drives (SSDs) in hybrid store pools. The project led to a patent (noted below).

Software Engineer Co-Op - Raleigh, NC

Jan 2009 – Aug 2009

- Worked with globally distributed development team for delivery of Rational Quality Manager v2.0 with a focus on creating test report templates

## TECHNICAL SKILLS

**Areas of specialization:** Blockchain engineering, backend development with JS/Python stack, devops and continuous integration, Linux architecture, parallel computing, image processing, real-time encoding and streaming, target detection and tracking, sensor control interfaces, data analysis and correlation

**Programming Languages:** Strong in C/C++, Python, JS stack, Capable in R, CUDA, Ruby, Java, Perl, Php, Csh, Bash, Lua, Matlab

## PATENTS

Conor Scott, Mingming Cao, Ben Chociej, Steven M. French, Matthew R. Lupfer, Steven L. Pratt. 2013. Hybrid data storage management taking into account input/output (I/O) priority, US Patent 20130073783, Filed Sep 15, 2011, Published Mar 21, 2013