

Thomas Veale

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OBJECTIVE

Hands on technical lead with strong track record at startups. Global experience working in cross functional teams to increase velocity and deliver value. Interests lean towards rapid prototyping, automation, and telemetry. Open to new positions within RD, product, or technical.

EDUCATION

PhD Computer Science, (incomplete), Cryptography, Cryptology
Virginia Commonwealth University, Richmond, VA Dec 2017
THESIS - Novel consensus algorithms, e.g. proof of stake

Bachelor of Science, Computer Science
Virginia Commonwealth University, Richmond, VA Dec 2015
Focus in cyber security

PROFESSIONAL EXPERIENCE

Bullish Global, Hong Kong Dec 2021 –
SRE/DevOps/Platform/Developer

- Brought new crypto exchange into operation by supporting operational staff with tactical software to monitor trading system health.
- Merge telemetry into single unified search on Datadog. Moving several thousand instances, enforcing reasonable cost model for users, instrumented apps, developed tagging strategies and educational resources.
- Run effective monitoring strategy and deliver key business intelligence to leadership.
- Modernized observability practices by implemented distributed tracing, re-working metrics, introducing structured logging, and building black-box monitoring system for SLO/SLI.
- Support product launches with production readiness reviews to ensure smooth launch of key products market-making, margin, dated futures, perpetuums, options, volatility, and FIX.
- Develop and maintain effective relationships with various teams to maximize customer satisfaction.
- Utilize frequent automated testing to simulate disaster scenarios and accurately identify and measure ability to respond problems.
- Simplify operations with automatic sync between the various observability, incident, change, and problem management systems. Streamlined tooling reduces cognitive load.
- StatsD, Micrometer, Datadog, Otel, GitOps, Python, Java, GCP, AWS, Azure, OVH, Digital Ocean.

Finverse Technology, Hong Kong
Developer June 2020 – November 2021

- First hire at Asia open banking data-aggregation outfit
- Push multi-functional team to adapt and refine GitOps best practices. Upfront cost of streamlining and automating builds/deployments paid off quickly.
- Ran cycle planning and ceremonies, tracked metrics, improved process. Interviewed, mentored, and trained junior devs.
- Greenfield project to production SaaS product with dozens of bank connections in 6mo. Infra and frameworks we wrote still run today.
- Core tech: Golang, postgres, gcp, python, nodejs, puppeteer
- Event Sourcing, CQRS, Reverse Engineering, API/Test drive development

Neat (A Rapyd company, Hong Kong)

September 2019 – Feb 2020

Developer

- Improve product release times by strangling standalone services out of monolith. Removed 10s of thousands of lines of code from maintenance and build times by a minute.
- Harden user account security with account takeover prevention software that locks accounts based on risk and behavior.
- Reduce friction with onboarding new customers thru a simple, automated sign-up application that meets compliance needs.
- Prototype tool that parses new user applications using NLP/ML and web queries to produce a risk score that automates some manual tasks by compliance officers and reduced the load on compliance team eliminating many false positives.

Makecents, New York, NY

July 2016 – August 2019

Developer

- Hire and run mixed team of 10+ to build mobile payments system in 6 months.
- Deploy and support product for large interstate retailer.
- Negotiate terms for compute cost share and subscription model for revenue.
- Business development activities, public speaking, investor talks. Raise US \$0.5mm

Graduate Research Assistant

Aug 2015 – December 2016

Richmond, VA

- Implement stochastic experiments to simulate performance of consensus algorithms in distributed systems.
- Mentored and trained undergraduates students.
- Developed research, technical writing, and peer reviews.
- Ran community study group for cryptography, bitcoin, and blockchain.

COMPUTER SKILLS

- Professional with golang, typescript, javascript, java, rust, python, git, terraform
- Configure and operate Kafka, RMQ, Zmq, Kubernetes, OpenTelemetry, ArgoCD, various clouds
- Infra as code, observability as code. Familiar with C/C++, Clojure, Ocaml, Erlang, Ansible, others
- Leader in running SDLC. Comfortable in scrum, kanban, ScrumBan, GitOps, or other agile practices
- Proficient in remote access, network management, system admin
- Academic training in maths, stats, algorithms, modern cryptography, distributed systems
- Working knowledge of supervised ML, transformers, neural networks, computer vision, and NLP
- Frameworks Flask, Vue, Angular, Django, Micronaut, Airflow, Flux, Rails, Sinatra, Swagger
- Comfortable with various de-compiling, payload injection, fuzzing, and scanning tools.

HONORS

Bitcoin School Greece (2016) - EU Intel Grant
BitCamp Hackathon (2016) - RedHat Open source Award

INTERESTS

Ultimate, trail running, climbing, cooking, music, sci-fi, open source