

James B. Ponwith

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TECHNOLOGIES & SKILLS

Languages: Python, Go, C, C++, Java, HTML, CSS, JavaScript, TypeScript, R, SQL, Bash, Assembly, SystemVerilog

Frameworks: AWS SDK, Kubernetes, Terraform, Docker, Scikit, Pandas, Numpy, PyTorch, Keras, Tensorflow, OpenCV, React

Technologies: AWS, GCP, Linux, Unix, Git, Vim, Jenkins, New Relic, Splunk, ServiceNow, Snowflake, Kafka, REST, gRPC, mTLS

PROFESSIONAL EXPERIENCE

Capital One (NYSE: COF)

May 2022 - Present

Principal Software Engineer | Technical Lead – Card Tech | Authorizations (Promoted from SE and Senior SE)

- Architected and built a greenfield Go service into a near-enterprise resiliency platform now spanning 8 tenant applications relied on by 15+ teams across 3 orgs as sole lead engineer (~85% of a 28-repo ecosystem)
- Designed a highly concurrent and reliable Resiliency Engine, Go App that auto-detects failures and routes live traffic to healthy cells cutting MTTR 95% to 1-min and protecting +\$2M net income/yr across systems processing \$780B
- Engineered strict cross-region consistency via DynamoDB MRSC, conditional writes, and a custom peer-to-peer lease-management protocol, low-latency Kafka APIs from cross-domain integration, dynamic S3 config, on ECS with OTEL
- Built multi-layered, multi-ingress traffic management flows (Cloudwatch→Route53, direct MQ control, leading migration to AWS ARC, and custom routing), shielding 12+ services to zero Sev-3+ incidents over the past year
- Pioneered agentic development flywheel (Intent→Build→Validate→Release→Learn) and inter-agent collaboration protocol orchestrating agent teams across 28 repos; drove org-wide adoption of AI tooling and best practices
- Set technical direction, roadmap, and end-to-end architecture for the payments platform; established comprehensive CI with unit/component/live-dependency testing (native Go + Localstack ephemeral suites) to close our feedback loop
- Collaborated with tenant application teams and led seamless migrations under active production traffic
- Earned the Tech Excellence award; mentor a team of 8 engineers; routinely present to EVP, SVP, and leadership

Qualcomm (NASDAQ: QCOM)

August 2019 – May 2022

SVE Engineer – Qualcomm CDMA Technologies | Systems Validation and Emulation

- Validated 5G NR, 4G LTE, & 3G Modem sub-systems on FPGA farm; uncovering 3 timing & power bugs pre-tape-out
- Collaborated with RTL, DSP-firmware, and silicon bring-up teams across 3 global teams; shipped 7 production SoCs
- Delivered robust automation and visualization pipeline standardizing systems validation reducing triage time +90%

All About Tennis

April 2020 - June 2020

Lead Developer and Computer Systems Manager – Retail Small Business

- Executed the large-scale critical systems transition to synchronize in-person and online experiences; ~700% YoY

Inter Active Corp (NASDAQ: IAC)

May 2019 – August 2019

Full Stack Software Engineer Intern – Ask Applications | Web

- Enabled dynamically configurable system level logging with remote access to primary application service code base
- Conducted targeted QA testing of ~160 dev, pre-prod, and prod level products using Fiddler - Used agile methodology

Pacifica Real Estate Services

June 2018 – October 2018

Network Engineer – Financial Analytics

- Lead developer on the real-time data analytics and automation team and web development team
- Saved \$25,000 via in-sourcing consulting SOWs, troubleshooting network/POS system, and automating processes
- Authored internal tools including automation scripts, real-time dashboards, data visualizations, and custom KPIs

University Growth Fund

May 2017 - June 2018

Associate – Venture Capital

- Deployed \$3M in technology venture capital; staffed and led deal teams yielding the deployment of \$1.5M

EDUCATION

University of San Diego, San Diego, California

Graduated May 2019

BA Computer Science, Shiley Marcos School of Engineering

BBA Finance, Knauss School of Business

RELEVANT COURSEWORK

Computer Science: Networking, Data Structures and Algorithms, Software Engineering, Computer Systems, Object-Oriented Design, Operating Systems, Digital Hardware Design, Big Data, Master's Cyber Security, Discrete Math, Calculus II, Automata

ORGANIZATIONS

NCAA D1 Tennis – 2x WCC Champion, VP of Association for Computing, Phi Kappa Theta, C1 NYC Site Council, Tech Excellence