Peter Alcock

Brooklyn, New York, United States

With over a decade of experience in e-commerce, web and mobile, DevOps and infrastructure, I've mastered systems integration for critical infrastructures, and secured scalable solutions for Fortune 500 companies and budding startups dedicated to developing digital strategies that serve and inspire people.

ZEPSEC
Chief Technology Officer
January 2023 - Present (1 year 3 months)
New York City Metropolitan Area

- Led the development and launch of a new Penetration Testing as a Service (PTaaS).
- Integrated Retrieval-Augmented Generation (RAG) to enhance our platform's accuracy.
- Established partnerships with security data brokers to enrich our IoC and vulnerability tracking
- Developed an automated system for monitoring and collecting threat intelligence and exploit PoCs to proactively spot and analyze emerging threats, substantially reducing time to detect.
- Implemented cutting-edge Large Language Models (LLMs) for deeper understanding of threats.
- Pitches technical demos and presentations to prospective investors, partners and clients.

Technical Consultant
May 2018 - January 2024 (5 years 9 months)
New York, New York

- Prototyped SaaS PoCs solutions for budding start-ups and entrepreneurs in Brooklyn.
- Developed Ruby on Rails (RoR) application services for digital ad integration with legacy services. at TeamSnap (https://teamsnap.com), cross-functionally managing designers and developers. within the brand experience team through technical roadmaps of VC-backed adtech initiatives.
- Lead weekly developer guilds to mentor juniors on common best practices and secure patterns.
- Hosted rapid prototyping sessions with stakeholders to visualize solutions for reducing tech debt.
- Launched eCommerce platform backed by an OCR engine to parse user-uploaded prescriptions into streamlined shopping experience for luxury eye-wear retailer https://visionaryoptics.com
- Migrated infrastructure off Heroku to Amazon Web Services for bitcoin tax automation startup (https://tokentax.co), re-designing MVP node.js API in Go to handle high-volume CSV uploads.
- Developed complete gig-economy platform for urban delivery logistics management startup.

Mark43
Senior DevOps Engineer
August 2016 - May 2018 (1 year 10 months)
New York, NY

- Developed SSO auth middleware to federate ADFS using police dept legacy 9-1-1 systems.
- Connected disparate emergency call centers and evidence management data-banks through encrypted file sharing networks as the primary on-call engineer for our CAD platform security.
- Functioned as our company's dedicated "red-team" security lead, actively looking for new ways to audit our environment and upset our blue team's network engineer every day before lunch.
- Maintained availability of first responder communication systems 24/7/365.
- Built API management system "Trafficker" to ease API service integration and simplify updates.
- Managed delivery of mission-critical CAD+ RMS release and patch rollouts and knowledge bank.
- Key POC for authentication system installation, integration and deployment, policies and procedures for maintaining SOC2 compliance through each new police department onboarding.
- Prototyped facial recognition application for identifying persons of interest at hackathon.

AOL TIME WARNER
Senior Engineering Consultant
May 2014 - April 2016 (2 years)

HBOGO
Senior Infrastructure Engineer
November 2014 - April 2016 (1 year 6 months)
Greater New York City Area
• Broke down monolith Java application into node.js micro-services, sunsetting legacy systems.
• Architected global load-balancing to withstand 5% of all internet traffic on AWS for GoT premiere.
• Integrated Continuous Integration and Continuous Delivery (CD/CI) pipelines with security audits,
• Centralized globally distributed logging for parsing terabytes of service event data using Splunk.
• Served as first point of contact in on-call incident escalation tier for DevOps engineering team.
• Lead the initiative to consolidate global server orchestration via RunDeck and Terraform.
• Maintained Application Performance Monitoring (APM) systems (AppDynamics).
• Developed certificate management tool for interfacing with Comodo's legacy XML API.
• Automated purchase order clearance of SSL certificates for Time Warner marketing teams.

Turner Broadcasting System
Senior Software Engineer
May 2014 - November 2014 (7 months)
Greater Atlanta Area
• Integrated Krux Analytics engine into the ongoing development of our ad intelligence platform.
• Created upper-management performance monitoring tools for oversight into ad tech initiatives.
• Developed internal tools to monitor ads across CNN, AdultSwim, ESPN, and Boomerang.
• Lead engineering initiative for ad coverage monitoring, collection and inventory automation.
• Built web-crawling dashboard to visualize ad embedding coverage for Google Ads DFP migration.

Visikard, Inc
Head of Infrastructure
September 2011 - May 2014 (2 years 9 months)
Atlanta, GA
• Organized teams and schedules for feature UX design and API development.
• Customized OpenX platform to add advanced targeting of our user base.
• Provided feedback, guidance, support, and debugging for developers.
• Managed thirty engineers for mobile integration with OpenX RTB.
• Migrated existing infrastructure onto AWS to support traffic spikes.
• Implemented NLP engines to analyze messages and identify influencers.
• Integrated search and recommendation engines to suggest products/profiles.
• Developed internal CMS, search and statistics dashboard for control over content.

Design Associates Inc.
IT Manager
July 2010 - June 2011 (1 year)
Cambridge, Massachusetts, United States
• Managed office's secure VPN, CRM, collaboration software and database.
• Maintained the digital and physical security of networks and equipment.
• Administered accounting operations, information systems, and tech support.
• Responsible for creation and maintenance of our Written Information Security Program.

- **Languages & Frameworks**: With over 20 years of lifetime experience coding, I have a wide range of expertise in development with Ruby on Rails, Python (Flask/Django), JavaScript (node.js), Typescript, PHP (Laravel), Go (Yay!), Elixir (Yuck!), Java, HTML5, CSS, VisualBasic(4.0!), and Objective-C for iOS native mobile development and am credited with releasing the first OpenERP (Odoo) client in Apple App Store (VeloERP)

- **DevOps & Infrastructure**: Over a decade of daily hands-on-the-console experience with AWS (Amazon Web Services) for cloud infrastructure management. Skilled in creating and managing Continuous Integration and Continuous Delivery (CI/CD) pipelines (GitLab, WOO!) that streamline application release management while incorporating container security auditing through Docker, Kubernetes, and Rancher, with server orchestration and configuration defined by Terraform, Ansible, Puppet, Chef, and CloudFormation for standardized DevSecOps rigs that *sing* with joy.

- **Cybersecurity**: Deep knowledge in Penetration Testing, Malware Analysis, Threat Intelligence, Vulnerability Scanning, Digital Forensics, Software-Defined Radio, Wireless Network Security, Application Fuzzing, Web Application Firewalls, Zero-Trust Architecture, SOC2 and ISO27001 compliance, SSO authentication systems and penetration testing procedures for security auditing. Recent experience with building on-prem Large Language Models (LLMs) for predictive threat intelligence using cluster ARM-based Raspberry Pi "supercomputer" network processing stacks.

- **Performance Monitoring**: ElasticSearch, Logstash, and Kibana (ELK Stack) AppDynamics, Wazuh, DataDog, New Relic and Splunk for log event visualization.

- **Network Design & Administration**: Highly proficient in global network traffic management and cloud server orchestration, with hands-on experience in setting up and maintaining hybrid VPNs, CDN failover chains, and legacy system integrations.

- **Database Technologies:** Highly experienced with relational databases MySQL, PostgreSQL, and non-relational databases CouchDB, DynamoDB, MongoDB.

- **Technical Leadership:** Strong background in team leadership and project management, with a track record of mentoring developers and managing cross-functional teams, delivering technical demos and presentations to stakeholders.

EDUCATION

Boston University
Graduate Certificate, Business (2011)

Suffolk University
Bachelor of Science, Media · (2010)