Kaleb Pace

kalebpace.me/resume | kaleb.pace@pm.me

RELEVANT EXPERIENCE

ZENUS | Founding Head of Engineering
November 2019 - July 2022 | Austin, TX

- Research and design (partial implementation) new ETL architecture to support ~500 IoT devices with a message broker, ingest into time series DB, and materialize/aggregate statistical queries for streaming analytics.
- On-board globally remote contract engineers
- Design and implement Vue 2/Vuetify JAMStack application for displaying facial analytics and impressions collected by devices, hosted on Cloudflare Pages.
- Design IoT device enclosure with FreeCAD, at-home FDM PLA print of prototypes, and manufacturing (Hubs 3D printed MJF Nylon PA-12).
- Migrate CUDA accelerated PyTorch computer vision application to Balena OS on NVIDIA Jetson Xavier and containerized services.
- Inherited AWS architecture from ex co-founder and refactored service management from in-house Boto3 solution to ECS task management for improved service scheduling and stability.

BABELSTREET | Software Engineer
July 2018 - November 2019 | Starkville, MS

- Rewrote URL extraction methods into statically compiled regexes which reduced extraction time from **20s to 0.5s** per ~1k documents collected
- Migrate console applications to MS Service Fabric guest executables reducing time to deploy from **~10 minutes to seconds** per application
- Assist with SRE architecture and on-call incident response using VictorOps
- Package, build, and deploy services using Bamboo CI/CD pipelines written in Java

HORNE CYBER | Cyber Risk Analyist (Red Team)
June 2017 - June 2018 | Starkville, MS

- Discover zero-day vulnerabilities of **intranet** applications which increased company's competitive standing
- Implement parallel NMAP scans reducing scan time from **days to hours**
- Containerize entire Elasticsearch stack with Elastalert integration
- Implement Docker pipeline for generating custom Kali Linux images for pen-test appliances deployed into client networks

BEYONDTRUST (F.K.A. BOMGAR) | Jr. Software Developer
May 2016 - May 2017 | Jackson, MS

- Implement ALPN/SNI using OpenSSL C library on Bomgar Box servers for HTTP/2 compatibility
- Implement encrypted syslog-ng multi-server backups over TLS using Python
- Extend Bomgar Box admin page options with HTML/PHP so clients may configure syslog-ng

EDUCATION

B.S. COMPUTER SCIENCE
Mississippi State University
May 2018 | Starkville, MS

SKILLS

SERVICES, PLATFORMS, & INFRASTRUCTURE

Cloudflare: Pages | Functions | Workers | DNS | Access

AWS: EC2 | S3 | ECS/ECR | Lambda | ALB | Self-Hosted MS Service Fabric on EC2

Balena Cloud: Balena CI | jetson-flash utilty

NVIDIA: Jetson | Jetson Linux | Nano | Xavier | Xavier eMMC

IBM: Cloudant | Functions | Code Engine | Kubernetes

DigitalOcean: Droplets | Spaces | Kubernetes

GCP: Firebase | Firestore

LANGUAGES & FRAMEWORKS
Vue 2/3 | Typescript | Python | Terraform | Bash | Golang | Rust | C# (.NETFramework, dotnet core) | Angular 9 | Java | C/C++ | LaTeX

TOOLS
Docker/Podman/LXC/Balena Engine | Git | VS Code | Vite | pnpm | Github Actions | Gitlab Runners | Jetbrains Suite | FreeCAD | Bamboo CI/CD | Mercurial | Metasploit | Burpsuite | Wireshark

OPERATING SYSTEMS
- Linux: 12 years total, 8 professionally
- Windows 10 & Server 2019

LINKS

LinkedIn:// **kaleb-pace**
GitHub:// **kalebpace**
GitLab:// **kalebpace**
Twitter:// **@kalebpace**
Mastodon:// **@kalebpace@social.coop**
Matrix:// **@kalebpace:matrix.org**