

ROBERT HAFNER

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PROFILE

A leader in building secure and scalable systems utilizing both cloud and hybrid environments, Robert has spent the last 15 years helping companies build the platforms that drive their businesses. When not working at some of the leading startups building advances security and AI platforms he worked as a consultant, helping dozens of companies gain the stability they needed to grow. In his spare time Robert has contributes and has started numerous open source projects, with his most popular projects having over 10 million downloads.

RESOURCES

LinkedIn	www.linkedin.com/in/roberthafner	Portfolio	projects.tedivm.com
Github	github.com/tedivm	Blog	blog.tedivm.com

SKILLS

Languages	Python, JavaScript/Node, NativeScript, PHP, Bash - Familiar with Java, Perl, C, Scheme
Systems	Linux (Ubuntu/Debian), OSX, Puppet/PuppetDB, terraform, HPC (slurm, htcondor)
AWS	EC2, S3, Kinesis, Sagemaker, IAM, VPC, Route53, EFS, ASG, RDS, boto3 DynamoDB, Lambda, SQS, Comprehend, SFTP, API Gateway, ELB/ALB/NLB, Kinesis, GuardDuty + Detective, AWS SSO, EFS, SNS, LustreFSX, Chatbot
Orchestration	terraform (tf cloud), ECS (EC2 and Fargate), Docker, VMWare ESXi, some Kubernetes
Data	Cloud Architecture, Hadoop, ELK, MySQL, Postgres, MongoDB, Redis, PostgreSQL
Tools	Jira, Zendesk, git/Github, CircleCI, Jenkins, Nagios/Icinga, HTML/CSS
Management	Technical Recruiting, Vender Relations, Excellent Communication Skills, Cat Herding
Development	Agile Processes (scrum, kanban), API Design, Continuous Integration, Scalability

EXPERIENCE

PRINCIPAL ENGINEER

Rad AI; Berkeley, CA

March 2020 - Present

- Led the Platform team, in charge of our Product, Research, and QA Platforms.
- Acted as Security and Privacy Officer, preparing the company for SOC2 and HIPAA+ audits, which in turn directly impacted our ability to sell to the healthcare market.
- Created reusable Terraform modules that allowed the company to rapidly prototype and expand its platforms, including modules for the quick release of micro services on top of ECS.
- Built a stable CI/CD pipeline utilizing Git Flow, Terraform Cloud, and CircleCI for our platforms that easily allows the entire team to safely deploy on a fast paced basis.
- Architected an extremely resilient and highly available product platform, capable of being launched in a new region with one command in less than an hour (despite having more than 600 separate resources).
- Maintained the physical research equipment, including multiple DGX machines, and their connections to their cloud counterparts, allowing for significant cost savings over a pure cloud environment.
- Created our entire inference platform, from the [base images](#) and [containers](#) up to the Terraform modules themselves. This included a “mock models” system for testing without GPUs.

VICE PRESIDENT OF ENGINEERING

Rad AI; Berkeley, CA

April 2018 - March 2020

- Built out engineering team as employee one, hiring for Fullstack, ML, Data Science, and Windows Devs.
- Created the first research platform, enabling HIPAA compliant machine learning research for the company. This includes a combination of HPC (slurm) for CPU based processing, a hybrid ML training environment utilizing DGX and AWS Cloud GPUs.
- Architected and built much of the SaaS platform behind our first product, including the initial API and analytics layers (built with python, Docker, and AWS).
- Created multiple fullstack internal tools for the research team, including a model storage system built on top of S3, a custom NLP experiment validation tool that allowed radiologists to to evaluate models, and a browser based annotation system.
- Worked directly with the sales team to reassure customers of our security and privacy practices, helping to drive forward sales.

VICE PRESIDENT OF ENGINEERING

Vicarious FPC; Union City, CA

November 2014 - March 2018

- Built relationships with vendors access beta programs and product roadmaps.
- Rebuilt all of the initial infrastructure using Configuration Management (Puppet).
- Architected and built HPC clusters in a hybrid-cloud environment designed for "infinite" scaling.
- Hired a world class infrastructure team, and assisted with hiring throughout the company.
- Audited and improved security of the company infrastructure, including managing third party audits.

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- Empowered researchers and developers by building tools they could use to customize servers and clusters.
- Worked extensively with all departments on a variety cross company projects.
- Advised the CEO and Operations team on startup best practices regarding recruiting, retention, and culture.

STARTUP ADVISOR AND NOMADIC DEVELOPER

AKA Vacation Time; San Francisco, CA - Paris, France

February 2014 - November 2014

- Advised multiple startups and a Kickstarter project on business models, operations, contracts, and funding.
- Found a COO for a local startup.
- Developed open source projects and advised projects.
- Travelled, programmed, learned and grew as a person.
- Rebuilt personal datacenter.

VICE PRESIDENT OF IT

Malwarebytes Corporation; San Jose, CA

September 2010 - February 2014

- Built and Managed four departments- Server Side Development, Development Operations, Corporate IT and Malware Intelligence- with 25+ employees and contractors.
- First non-founder member of the executive team; supplied advice and built strategy with the leads of all departments.
- Managed solid platforms for analytics, trials, updates and standard business operations in the face of an exponentially growing user base and the anger of a large number of cyber criminals.
- Personally built the company's first hadoop (EMR) based analytics platform.
- Applied agile processes to our software and infrastructure teams, working closely with QA to be truly agile.
- Helped launch and support the Malwarebytes Unpacked blog; including writing content.
- Was the main point of contact with Law Enforcement for information sharing.
- Maintained a culture and infrastructure that was never once hacked or exploited despite constant threat.

DIRECTOR OF IT

Malwarebytes Corporation; San Jose, CA

April 2010 - September 2010

- Maintained ownership over all server side development and operations.
- Began the process of recruiting and building out technical teams.
- Helped develop policies and practices for the quickly growing company.
- Managed relationships with CDN, Datacenter, Cloud and other vendors.

CONSULTANT

Malwarebytes Corporation; San Jose, CA

October 2008 - April 2010

- Built initial company infrastructure in 24 hours after a slash-dot affect took down their community run site.
- Managed vendor negotiation and saved the company hundreds of thousands of dollars, if not more over time, in services.
- Built a resilient and high performing product update platform with global download points.
- Defended against DDoS attacks and other more sophisticated exploitation attempts.

DEV/OPS CONSULTANT AND COFOUNDER

SolunaNet; Chicopee, MA

January 2008 - April 2010

- Performed application security audits and instructed developers on secure development practices.
- Performed post incident analysis, repair and remediation.
- Built fault tolerant highly scalable applications, primarily on the LAMP platform.

CONSULTANT, DEVELOPER AND SERVER ADMINISTRATOR

Positronic Design; Holyoke, MA

June 2006 - February 2009

- Long term consulting contract that started as a system administration and web development and grew into a project management role.
- Rebuilt shared hosting environment and created the dedicated server offerings.
- Lead development projects with teams consisting of other subcontractor developers.
- Approved or directly wrote the specifications for all new development projects.

DEVELOPER AND SERVER ADMINISTRATOR, COFOUNDER

Soluna Enterprises; Chicopee, MA

December 2005 - January 2008

- Technical partner in two person shared and dedicated web hosting company with over six hundred sites.
- Managed dozens of web development projects ranging from small bug fixes to large scale multiple developer projects.
- Specialized projects included mass migration, custom system architecture, and server hardening- often in emergency circumstances.

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EDUCATION

WORCESTER POLYTECHNIC INSTITUTE

Worcester, MA — 2004-2006

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

Springfield, MA — 2006-2007

REFERENCES

AVAILABLE ON REQUEST.