

Ian Becker

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Summary

Skilled Software Engineer with a robust background in full-stack development, MLOps, CI/CD innovation, and UX design. Demonstrates a strong proficiency in deploying scalable solutions using Ray, Kubernetes, and Kafka, and modernizing CI/CD pipelines for improved efficiency. Adept at crafting user-centric interfaces with the latest front end technologies. Committed to leveraging technical expertise for continuous improvement and sharing insights within the tech community.

Skills

- Languages: C, C++, Java, Python, TypeScript, Go, C#, Swift
- MLOps: Design and implementation of platforms using Ray, Kafka in Kubernetes environments
- CI/CD: GitHub Actions, GitOps with ArgoCD, Docker, Kubernetes
- Front-End Development: Svelte, TypeScript, TailwindCSS, UX design principles
- Cloud and Infrastructure: AWS, Azure, system scalability, and fault tolerance
- Operating Systems: Linux, kernel troubleshooting, virtualization with libvirt, KVM, QEMU
- Monitoring: Exposure to Prometheus and Grafana for system optimization
- Community Engagement: Active open source contributions, knowledge sharing through Twitch and YouTube

Experience

Contributor

Open Source Projects

- Running Streak Tracker: Developed a Python-based application utilizing Garmin's API for activity tracking, employing Nix and GitHub Actions for project management and CI/CD.
- Sponsorkit: Contributed to enhancing a TypeScript and GraphQL project, focusing on community driven development and collaborative problem-solving.
- CapacitorJS: Participating in community efforts to improve the Camera plugin, merging expertise in Android/Java and TypeScript/JavaScript.
- News Reader: Currently developing a news reader application, leveraging Svelte, TypeScript, and TailwindCSS for a modern, intuitive user interface.

Vice President of Engineering Development

SafeGuard Cyber, Mar 2023 - Sep 2023 (7 months)

- Designed and developed an MLOps platform using Ray and Kubernetes, focusing on efficient real time data processing and deployment.
- Transitioned CI/CD pipelines to GitHub Actions, enhancing deployment workflows with GitOps and ArgoCD.
- Hands-on development in Java, C#, Docker, and Kubernetes.



Chief Staff Engineer

Cyber Reliant, Jun 2018 - Mar 2023 (4 years 10 months)

- Integrated secure data protection with database systems, emphasizing encryption and data integrity.
- Developed a Secure Distributed Storage solution on AWS, focusing on scalability and resilience.
- Led the design and execution of a robust DevOps pipeline on Microsoft Azure.
- Mentored engineering teams in technical excellence and collaboration.



Senior Software Engineer

Cyber Reliant, Apr 2017 - Jun 2018 (1 year 3 months)

- Enhanced cryptographic solutions, significantly improving performance and system security.
- Led R&D in cryptographic algorithms, contributing to system performance enhancements, achieving a 32x speedup with SIMD instructions.



Senior Research and Development Engineer

Spirent Communications, Nov 2014 - Apr 2017 (2 years 6 months)

- Orchestrated Android OS porting to custom hardware, troubleshooting Linux kernel, bootloader, and UI issues.
- Innovated an on-device automation solution for Android, improving software development and testing processes.



Engineer

Spirent Communications, Jun 2012 - Nov 2014 (2 years 6 months)

- Implemented unit testing to improve code quality and reliability.
- Developed desktop, web, and Android applications, showcasing full-stack development skills.



Software Developer

Metrico Wireless, Jun 2012 - Sep 2012 (4 months)

- Developed a Python-based packet capture analysis tool, demonstrating data analysis proficiency.



Software Engineer

Heron Systems, Jun 2010 - Jun 2012 (2 years 1 month)

- Upgraded legacy systems with modern C++ standards, enhancing software maintainability.
- Worked on neural network projects and simulation tools, applying AI and ML principles
- Developed mapping and GUI for a centralized scenario generator in distributed simulations.

Education



St. Mary's College of Maryland

Bachelors, Computer Science, Mathematics (Minor)

2006 - 2010