

Jonathan Cirillo

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EDUCATION

UNIVERSITY OF CENTRAL FLORIDA | Bachelor of Science in Computer Science
August 2019 - August 2023

EXPERIENCE

F5 | Software Engineer II Aug 2023 – Present

Stack: Python, Docker, Kubernetes, Linux, Networking

- Supporting F5's next-gen rSeries and VELOS products as member of Velocity System Integration team.
- Architected and independently maintain BOS API Service, Web UI, and infrastructure used by entire F5OS Dev organization for build verification results management with automated failure analysis, live hardware health visualization, and report generation capabilities.
- Designed 75+ Python integration tests with 150,000+ logged runs and added 100+ methods to core libraries; created 400+ issues tracking failure patterns and filed 150+ bugs resulting in 70+ product fixes.
- Architected automated recovery process for build verification pipeline failures, becoming critical to product development; established as SME in test automation, pipeline templates, and complex log debugging.
- Led test integration for Rocky Linux and Lightweight Kubernetes (K3S) chassis merge, collaborating across time zones to implement backwards compatibility between releases while educating team on procedures.
- Developed end-to-end build pipeline for new tenant integration testing, serving as front line for identifying breakages and providing live debug support.
- Primary executor and maintainer of F5OS + BIG-IP TMOS High Availability traffic testing suite.
- Earned exceptional performance recognition: 20 awards in under 2 years including 16 shoutouts, 3 Group Awards, and 1 Individual BeF5 Award.

VS & CO. | Software Engineer Intern May 2023 – Aug 2023

Stack: Go, Azure, Docker, Kubernetes, CouchDB, Consul

- Optimized core service performance by 100-1000x through data structure optimization for blacklisted users.
- Supported 100+ Go microservices within Azure Kubernetes Services environment.

VS & CO. | Applications Developer Intern May 2022 – May 2023

Stack: C#, Java, SQL, PowerShell, Cherwell

- Conducted root cause analysis of payment system bugs potentially impacting millions at 1000+ stores.
- Identified production faults with APIs & firewalls, preventing thousands in potential losses.

PROJECTS

SOLAR PANEL VISUALIZER | Lead Developer

Stack: JavaScript, Python, Google Solar API, React, PostgreSQL

[Link to Project](#)

- Created web app leveraging Google Solar API for dynamic visualization of solar panel configurations with real-time statistics and ROI calculations for any address.

AUGMENTED REALITY COOKING SIMULATOR | Lead Back-End Developer

Stack: Flutter, Dart, Unity, C#, Firebase

[Link to Website](#)

- Engineered APIs for efficient app-to-database communication and real-time 3D asset instantiation.
- Designed system architecture minimizing DB requests, saving hundreds in operational costs.

JAVA CHESS ENGINE & MULTI-THREADED AI | Lead Developer

Stack: Java, LaTeX, IntelliJ

[Link to Paper](#)

- Developed robust chess engine with multi-threaded AI achieving 270% performance increase through parallelized alpha-beta pruning, documented in research paper.

TECHNICAL SKILLS

Programming Languages: Python • Go • Java • JavaScript • C# • C • SQL • Dart • LaTeX

Infrastructure & Tools: Docker • Kubernetes • Azure • Linux • GitSwarm • Postman

Frameworks & Databases: Flask • React.js • Node.js • Flutter • Unity • Firebase • MongoDB • PostgreSQL

