# Charlie Gunyon

**Software Developer**

**Charlie Gunyon**

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## Summary

Full stack developer with a focus on backend development.  Comfortable in an embedded environment with C or a web environment with Python/JS.

## Experience

### Hillary for America  / Senior Software Engineer

June 2016 - November 2016, Brooklyn, NY

Developed a web service to support voter protection efforts - assign more than 60,000 attorney poll observers to polling locations and track potential voter suppression events across the US, reported by observers, hotline workers, or otherwise.  Built a photo filter website enabling users to filter their Facebook profile pictures with "I Registered" / "I Voted" filters in order to drive social pressure towards these activities.  Took over the public call tool, adding in-depth fraud detection, call teams, and 100x scalability in anticipation of election day call volume.

Main technologies: Python, Django, Flask, PostgreSQL, React, AWS, Sentry, Datadog.

### Rolls-Royce CDS  / Software Engineer

March 2015 - June 2016,  Indianapolis, IN

Developed an embedded OS to monitor jet engine performance.  Built runtime configuration and inter-processor communications subsystems.  Wrote custom NAND driver for Linux.  Transitioned codebase from ad-hoc messaging system to TI IPC and MessagePack.  Built fault-tolerant non-volatile memory data storage system for NOR flash.  Wrote hundreds of unit tests and led testing and deployment automation.

Main technologies: C, Linux, TI SYS/BIOS, Redis, Python, Lua, shell, CMake.

### Indiana University / Web Developer Analyst

November 2014 - March 2015,  Bloomington, IN

Developed and maintained multi-campus infrastructure and public web applications for USSS operations, including admissions, student records, financial aid, and institutional research.  Migrated codebases well over 100,000 LOC to new deployments for enhanced security.  Conducted thorough code audit, resolving multiple critical security issues.

Main technologies: ColdFusion, HTML/CSS/JS, MSSQL

## Education

### Indiana University - Purdue University Indianapolis / Political Science BA

August 2010 - May 2014, Indianapolis

President of Student Democrats at IUPUI: August 2013 - May 2014