

## Gavin F. Cabbage

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**EDUCATION**     *Bachelor of Science*, Computer Science, Math minor  
The College of William and Mary, 2014

**EXPERIENCE**     *Software Engineer* | CodeShip Cloud Systems Team     June 2018 — June 2019  
CloudBees, Inc., Remote

- Manage a dynamic fleet of hundreds of Docker and LXC build executors scaling to process over one million customer jobs per month
- Contributed to the design and implementation of a new customer logs store built with Go and gRPC to securely ingest, process and serve logs from hot and cold storage; Running on ECS and using Kinesis as a resilient ingestion stream
- Maintain and extend a build orchestration system built with Go, Ruby and Postgres, deployed on AWS utilizing Redis and SQS for asynchronous communication
- Designed and documented a common IAM scheme for managing automation roles deploying and updating infrastructure with Terraform
- Engage with and contribute to open source projects on behalf of the team

*Software Engineer* | Card Rewards Technology     July 2014 — May 2018  
Capital One Financial Corporation, Richmond, VA

- Technical lead on the Card Online Servicing platform built with Angular and Spring; coordinated with dozens of teams working in the codebase concurrently
- Led development of a real-time auditing and reconciliation system; built with Go, AWS Lambda and SQS to interface with MongoDB and Cassandra
- Built Dockerized Java REST services on shared AWS ECS clusters
- Ensured implementation accuracy through automated unit, integration and behavioral testing using tools like Newman, Selenium and Cucumber
- Used Python and Flask to develop a MongoDB data management, validation and migration tool for our operations and configuration teams
- Augmented PostgreSQL tables and stored procedures; built a Python library to simplify developer prototyping and reporting against our team's databases
- Migrated active services from data centers to AWS without customer disruption

*Network Engineering Intern* | Information Technology     April 2013 — May 2014  
The College of William and Mary, Williamsburg, VA

- Supported and deployed cabling, switches, telephony, servers and wireless devices
- Ported automated UPS monitoring scripts from Perl to Python

**PROJECTS**     *Creator*     April 2016 — present  
Il-2 Mission Planner | il2missionplanner.com

- Created a successful collaborative navigation app for the *Il-2 Sturmovik* flight simulator; map flight routes and landmarks and calculate times and distances
- An API written in Go integrates with game servers and supports a javascript frontend extending the LeafletJS mapping framework
- Redis pub-sub is augmented with Redis' Lua scripting support to provide real-time mission plan sharing between pilots around the world
- Built on AWS: An EC2 backend behind an SSL terminating load balancer and a frontend served from an S3 backed CloudFront distribution
- An automated CI/CD pipeline builds, tests and deploys code through development, beta and production environments using TravisCI

**SERVICE**     *Teacher*     January 2015 — November 2016  
Capital One Coders Program, Richmond, VA

- Led middle school students through a hands-on curriculum building Android apps
- Worked with school representatives, prepared lesson plans, organized a team of classroom mentors and served on the program's leadership team