

Jonathan Flaishans

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Full Stack Software Developer

RESTful APIs | Responsive Web Apps | Database Solutions | Web Servers | Cloud Computing

- RESTful API development (Flask), deployment (Apache/NGINX), & documentation (Swagger/OpenAPI)
- Web application construction with modern frameworks (Django, React.js) and build tools (Gulp, Grunt)
- Database engineering solutions to power a variety of software needs including persistent storage (MongoDB, SQLite), geospatial data (PostgreSQL), & fast read access (Redis, Memcached) applications
- Red Hat Linux Certified System Administrator and real-world experiences developing with Docker containerization, Amazon Web Services, Heroku, Cloud Foundry, and Google App Engine services

Skills and Proficiencies

Object oriented software design, Python, JavaScript, Android (Java), HTML5/CSS3, and Fortran languages
Web servers (Apache, NGINX), Linux (RHEL, Ubuntu), remote SSH shells (bash), and Docker containerization
Continuous integration testing, git version control, deployment automation, and headless browser testing
Relational (PostgreSQL, SQLite) and NoSQL (MongoDB) database, as well as in-memory (Redis), solutions
Modern web frameworks and build systems with desire to learn and use new software techniques/languages

Professional Experience

Software Engineer – Oak Ridge Institute for Science and Education, Athens, GA *Jan 2013 - present*

- Software development lead on RESTful APIs for scientific models using a Python Flask, MongoDB, Redis, uWSGI, and NGINX stack on cloud-based Red Hat Enterprise Linux infrastructure
- Took advantage of websockets (NGINX - NodeJS stack) to push relevant server-side data to users
- Architected cloud solution to efficiently serve large amounts of data from MongoDB (Tornado/Motor), using Redis as the intermediate broker, to a CPU and data intensive web application (Python, Fortran)
- Deployed web app framework with NoSQL DB to Amazon Web Services using Elastic Beanstalk PaaS
- Automated front end (HTML, CSS, JavaScript) build of web applications with Gulp and TravisCI tools
- Agile-based development team, participating in daily stand-ups, monthly sprints, and rapid release cycles
- Presented work and research at field-related conferences including [parallelization and optimization of software in the cloud, RESTful API development and documentation, and web application development](#)
- Organized and conducted [Docker, Python, and Cloud-based Applications](#) technical training workshops

Environmental Engineer – Contractor at Environmental Protection Agency, Athens, GA *Dec 2010 – Dec 2012*

- Design and implementation of remote telemetry network of sensors (RF over serial COM port)
- Programming and automation of sensors and organization and maintenance of data collected

Graduate Student – University of Georgia, Athens, GA *Aug 2007 – Dec 2010*

- “Web Master” for departmental web site managed with Adobe CMS for static and dynamic content
- Recorded, encoded, and imbedded video lectures (Flash) to course web site for remote campus students

GitHub: <https://github.com/funkswing>
Stack Overflow: <http://stackoverflow.com/users/2136394/flash>
Docker Hub: <https://hub.docker.com/r/funkswing/>

Portfolio and more details:
www.flashans.com