

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), JSON, AJAX, Linux (RHEL 6/7, Ubuntu), SSH, 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 languages (Ruby, iOS)

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