

# Shaishav Parekh

## Senior Software Engineer

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References available upon request

Talented software developer with strong educational background in object-oriented programming. Experience with implementing the latest in open-source software technologies. Strong professional communication skills and productive in swift team-based projects.

### Technical Qualifications

- Java (5+ Years) - Vert.x, Maven, Apache Camel
- Python (3+ Years) - FastAPI, asyncio, Flask, gevent, NumPy
- Docker (3+ Years) - Mesos/Marathon, Docker Swarm
- Other - MySQL, Mongo, Elastic, InfluxDB, Redis, Git, Jenkins, Ansible

### Experience

Jul **Senior Software Engineer**, *OneWeb*, McLean, VA.

2016–Present Lead developer for multiple elements within the Fleet Management Segment. Responsible for managing a fleet of 74 satellites.

- Led POC teams for managing containerized services for orchestration, service-discovery, metrics and tracing that eventually became core infrastructure services
- Led design for a highly robust, scalable and decoupled messaging based architecture
- Designed/developed/maintained asynchronous REST APIs for satellite metadata, motion and service management in Java and Python documented with OpenAPI and full test coverage
- Maintained several high priority projects while supporting launch and operations activities for a fleet of satellites
- Developed a custom solution for managing and running satellite + ground infrastructure analytics using Python and Docker Swarm backed with Redis and MongoDB
- Developed libraries in Python for fetching data from Elastic, InfluxDB and HTTP microservices
- Performed troubleshooting, performance analysis and zero-day patches
- Participated in multi-day triage activities for production software
- Provided code reviews for projects in multiple languages including C# and Perl
- Led scrum and sprint planning meetings using the Agile methodology
- Participated in multiple design reviews
- Provided mentoring for interns and junior developers

- Jan 2014–Jul 2016 **Middleware Consultant**, *Red Hat*, Austin, TX.  
Focused on delivering integration solutions with Red Hat JBoss Fuse, Apache Camel, Apache ActiveMQ. Experience with large scale migrations of IBM Integration Stack to Red Hat Stack. Responsibilities include architecting, profiling and optimizing integration infrastructure and applications. Migrations include moving legacy code to Camel Java DSL, migrate from Waterfall to Agile development with full source code management, build management and artifact management.
- May 2013–Dec 2013 **Software Development Intern**, *Virginia Tech Transportation Institute*, Blacksburg, VA.  
Gathered requirements and wrote a package management application for the VTTI Data Acquisition System. Updated firmware for Light and Hydrant Control System. Wrote support code for VTTI Data Acquisition System.
- Feb 2013–Dec 2013 **Software Development**, *VT Motorsports*, Blacksburg, VA.  
Implemented a Wireless Telemetry system to view and log CAN messages containing car data in real-time. Wireless telemetry system was implemented using ZigBee and LabVIEW. Designed and fabricated an on-board diagnostics system for the car, implemented using a PIC18 microcontroller and C.

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## Education

- 2009–2013 **Computer Engineering**, *Virginia Tech*, Blacksburg, VA, Bachelor of Science.  
Relevant Coursework: Digital Design I & II, Engineering Design & Project, Applied Software Design, Embedded Systems, Mechatronics, Microcontroller Programming & Interfacing, Hardware Software Codesign, Machine Perception & Learning.