

Akshay Karthik

SOFTWARE ENGINEER

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Software engineer with a passion for building high throughput, high performance, and fault tolerant systems

Skills

PROFESSIONAL SKILLS

| | |
|------------------------------|---|
| Languages | javascript/node.js, Python, Java, C |
| Databases and Other Software | Solr, Elasticsearch, Couchbase, Postgresql, RabbitMQ |
| Tools | Git, Teamcity, Gitlab, Google Cloud Platform, AWS |
| Techniques | CQRS, Event Sourcing, Automated Testing, Agile Development, Continuous Integration |

EXPOSURE TO

| | |
|------------------------------|---------------------------------------|
| Languages | Rust, C#/F#/.net, Elixir, Ruby |
| Databases and Other Software | MySQL, Kafka, Hadoop |

Experience

Gannett Digital

Fairfax, VA

SOFTWARE DEVELOPER

Sept. 2014 - Present

- Worked in **Agile** cross functional teams, developing **APIs** that are used in USAToday mobile apps and desktop websites
- Developed applications in **Python** and **javascript (node.js)** that served:
 - 96 million monthly customers across 93 news-sites and mobile apps
 - 1.2 billion monthly page views
- Developed key infrastructure that powers *Presto*, a real time content publishing and authoring system that powers 93 newspapers across the United States
- Worked with **Solr**, **Couchbase**, and **RabbitMQ** to provide high throughput, high availability services
- Used **teamcity** to enable a **continuous integration** pipeline to reduce time to market
- Wrote **Automated Tests** to reduce bugs and prevent feature regression
- Developed a **CQRS** and **Event Sourcing** based architecture to enable an easily scalable, fault tolerant, flexible and future proof system

Gannett Digital

Fairfax, VA

SOFTWARE DEVELOPMENT INTERN

June 2014 - August 2014

- Helped maintain existing **Python** (Django and Flask) Applications
- Interfaced with infrastructure services like Amazon AWS
- Used tools like **Solr**, **rabbitmq**, and **Couchbase**
- Worked with Oculus rift and developed Harvest of Change, the first virtual reality news content

Education

Georgia Institute of Technology

M.S. IN COMPUTER SCIENCE

January 2017 - Present

Concentration in Computing Systems

George Mason University

Fairfax, VA

B.S. IN COMPUTER SCIENCE

Aug. 2013 - May. 2016

Minor in Mathematics

Leadership

President of Student Run Computing and Technology

GEORGE MASON UNIVERSITY

Sept. 2015 - May 2016

- Organized and ran large events to bring industry experts and students together to promote Open Source Software
- Lead workshops to educate students about software development, testing, and deployment
- Liased with university faculty to provide software to students
- Gave talks to membership on a variety of software related topics

Vice President of Student Run Computing and Technology

GEORGE MASON UNIVERSITY

Jan. 2015 - May 2015

- Organised student developers to release software for students
- Set up and taught student developers how to use Jenkins for Automated Testing

Developer

GEORGE MASON UNIVERSITY

Dec. 2014 - Jan. 2015

- Developed open source applications that benefited the George Mason Student Community
- Went to pycon 2014 and learned about teaching and promoting python
- Mentored new students into becoming developers

Achievements

- 2014 **First Place**, Innovative Defense Technologies - Automated Software Testing Contest (College)
- 2013 **Sprited Speaker Award**, GMU COMM100 Sprited Speaker Competition
- 2013 **First Place**, Innovative Defense Technologies - Automated Software Testing Contest (High School)