

Akshay Karthik

SOFTWARE ENGINEER

✉ akshay.karthik@gmail.com 🏠 akshaykarthik.com 📱 akshaykarthik 🌐 akshaykarthik

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

Skills

PROFESSIONAL SKILLS

Languages and Platforms	javascript/node.js (typescript), javascript/react.js (typescript), Python, Java, Rust
Tools	Git, Gitlab/Gitlab CI, Teamcity
Infrastructure	AWS (Amazon Web Services), Terraform, Pulumi, GCP (Google Cloud Platform)
Databases and Platforms	Postgresql, Redis, Elasticsearch, Kafka
Techniques	Automated Testing, Agile Development, Continuous Integration

Experience

Remine

Fairfax, VA

PRINCIPAL SOFTWARE ARCHITECT

Jan. 2019 - Present

- Architected MLS 2.0, a multiple listing service system. Owned the architecture and the initial development team of 14.
- Developed architecture guidelines, documentation, and system implementation using PostgreSQL, node/typescript, react.js. Deployed on kubernetes in AWS via CI/CD.
- Worked directly with stakeholders to set up infrastructure and initial implementation of a product vertical.
- Mentored developers across business verticals, primarily focused on backend and data oriented architectural design considerations and code quality.

Remine

Fairfax, VA

PLATFORM ENGINEERING LEAD

Feb. 2018 - Jan. 2019

- Lead two teams of six developers focused on data pipelining and backend services.
- Lead a data pipelining team to automate and improve infrastructure surrounding ETL from third party vendors. Architected monitoring and deployment patterns to scale from a dozen ETL sources to over 50.
- Lead a services team focused on integrations with third party vendors and CMS systems. Set up technical guidelines and some automation to make continuous delivery feasible.

Remine

Fairfax, VA

SENIOR FULL STACK ENGINEER

Jun. 2017 - Feb. 2018

- Developed backend and data pipeline for app-v2, a rewrite/rebuild of the company's main product.
- Developed API using node.js/typescript interfacing with PostgreSQL, Elasticsearch, Redis, and several AWS services.
- Developed CI/CD infrastructure and scripts to deploy applications to kubernetes on both GCP and AWS systems.
- Interfaced directly with the stakeholders to ensure quality software was delivered

Gannett Digital

Fairfax, VA

SOFTWARE DEVELOPER

Sept. 2014 - Jun. 2017

- 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 on Amazon AWS, using technologies 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