

PRATIK PATEL

SENIOR SOFTWARE DEVELOPMENT ENGINEER AT AWS

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About

Looking for a senior position where I can grow and evolve as a Software Development Engineer. Seeking the opportunity to influence the technology within a company.

Skills

Distributed System Design
Experience creating and managing Production distributed systems.

Service Architecture Experience
designing and creating services built using AWS components.

Operationally Focused Proponent of building operationally safe, scalable, and tested solutions.

Technical

Java

C++ / C

Javascript / NodeJS / React

Python

Ruby / Ruby on Rails

Git

Bash/Zsh

MySQL

CloudFormation

IAM

DynamoDB

EC2

Lambda

S3

Hibernate

Spring/Guice

TS/SCI Active Security Clearance

Experience

AWS Security Senior Software Development Engineer 2019-02 to present

Tech lead and SME for an internal AWS account management service. Designing a system to protect and limit the access to Production AWS account resources.

Technical Environment Java, Javascript, Ruby On Rails, MySQL.

AWS Security Software Development Engineer II 2017-02 to 2019-02

Tech lead and SME for an internal AWS account management service. Led the design and implementation for the control plane of an internal SSO authentication platform for all of Amazon. Designed and created a web-based SSH client for internal use at Amazon in my spare time (the service has been funded and launched for Production). Designed and created an authorization service to protect errant operator actions from affecting Production systems.

Technical Environment Java, Javascript, Ruby On Rails, MySQL, NodeJS, React, AWS Services.

AWS Security Software Development Engineer I 2015-02 to 2017-02

Worked on a "Tier 0" internal AWS account management service. Led the design for the re-architecture of the data plane in order to provide regional redundancy and high availability. Created an IAM User access key rotation algorithm to ensure access keys are rotated securely and safely.

Technical Environment Java, Javascript, Ruby On Rails, MySQL.

Research

Rensselaer Polytechnic Institute Worldwide Computing Laboratory 2012-02 to 2014-12

Designed and created a distributed Face Recognition Application. This application consisted of a "farmer" actor with an unknown face. The application would spawn various "worker" actors to find the closest match based on their own personal face databases. We observed a performance and accuracy increase when offloading the "worker" actors from the mobile device to the cloud.

Technical Environment Android, SALSA, Java, OpenCV.

Designed and created a Data Analytics Computational Steering Framework. The framework would drive computation towards the highest confidence result based on a certain allotted time for processing. The framework supported moving computation between mobile devices, private clouds, and the public cloud based on time or budget constraints.

Technical Environment SALSA, Java.

Publications

Encyclopedia of Cloud Computing Chapter 50: Developing Elastic Software for the Cloud 2016-05

Master's Thesis *Speeding Up and Augmenting Mobile Device Applications using Actors and Cloud Computing*
2012-12

Education

M.S. Computer Science

B.S. Dual Major Computer Science and Computer Systems Engineering 2010 to 2014

Rensselaer Polytechnic Institute, Troy, NY

* GPA 3.8/4.0

* Dean's List

* RPI Medalist

* Upsilon Pi Epsilon Computer Science Honor Society Member, Invited to Eta Kappa Nu and Tau Beta Pi Honor Societies

NYS Regents Diploma Graduate with Advanced Designation Honors 2006 to 2010

Salmon River High School, Fort Covington, NY

* GPA 4.0/4.0, Valedictorian