

# Rohith Pentaparth

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## WORK EXPERIENCE

### Capital One

Aug 2019 - Present

#### Senior Associate Software Engineer - Delivery Experience

Washington, D.C. Area

- Revamped software release experience by building a widely used DevOps tool for Kubernetes deployments
- Combined knowledge of AWS and CI/CD practices to assist 20+ teams onboard to internal deployment pipeline
- Rapidly addressed customer feedback by designing and developing robust systems

### Qualtrics

May 2019 - Aug 2019

#### Software Engineering Intern - Data Platform

Seattle, WA

- Developed a highly-requested custom periods feature that allows customers to define their own time period
- Rebuilt Scala API and internal query language to translate date range requests into Elasticsearch queries
- Worked closely with front-end team to plan and develop full-stack system

### J.P. Morgan Chase

Jan 2018 - Dec 2018

#### Software Engineering Intern - Commercial Bank

New York City, NY

- Built configurable monitoring dashboard that visualizes real-time job and batch loan transactions
- Designed Oracle DB to enable preferences and comments, utilizing Angular for job and batch status updates
- Saved \$3M in development fees and eliminated \$150K in annual costs by allowing additional dataset onboarding

## EDUCATION

### University of Michigan, Ann Arbor, MI

Dec 2018

#### Bachelor of Science in Data Science (Computer Science Dept.)

GPA: 3.62/4.00

- Awards: PennApps XVIII (Top 30 Hacks, Best DocuSign App); HackIllinois Open Source 2019 (Top 10 Hacks)
- Coursework: Machine Learning, Computer Vision, Web & DB Systems, Data Structures & Algorithms, Probability

## TECHNICAL SKILLS

**Languages:** C/C++, Java, Python, Scala, PL/SQL, Golang, JavaScript, HTML/CSS

**Technologies:** AWS, Docker, Kubernetes, Linux, Oracle, DynamoDB, MongoDB, Elasticsearch, Jenkins

**Certifications:** AWS Solutions Architect - Associate Certification (Dec 2019 - Dec 2022)

**Open Source Contributions:** Julia Programming Language Packages - LightGraphs, Flux Machine Learning

## LEADERSHIP

### AWS Instructor at Capital One - Leadership & Development Committee

April 2020 - June 2020

- Prepared 50+ DevOps employees for AWS Solutions Architect exam using self-made demos, labs, and quizzes

### Computer Vision Team Lead at UM:Autonomy - Autonomous Boat Driving

Sep 2018 - Dec 2018

- Led eight engineers to rebuild computer vision app, enabling autonomous boats to react to objects in water

## PROJECTS

### POKI - Serverless Reminder Bot for Github Pull Requests (Capital One Hackathon, Audience Choice award)

- Implemented serverless app to track Github Pull Requests and ping approvers/commenters in real time on Slack
- Harnessed cloud technologies (AWS Gateway, Lambda, DynamoDB), external APIs, and internal company APIs

### Forest-Fire Detection and Notification using Computer Vision (PennApps Hackathon, Top 30 award)

- Built OpenCV tool to classify forest fires from residential video footage and extract fire size and growth analytics
- Integrated Twilio API to alert nearby residents via mobile device, and MongoDB to allow residents to add footage

### Lex Chatbot for Troubleshooting (JPMorgan Hackathon, 3rd place)

- Configured NLU chatbot using AWS Lex that responds and redirects user questions to specific teams
- Built prototype that automates manual redirecting done by support teams, saving around 74,880 hours annually