

Sunil Murthy

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SUMMARY

Experienced Software Engineer with 8+ years in enterprise software development and cloud computing. Currently Senior Software Engineer at Amazon Web Services, specializing in mobile device management and secure access solutions. Proven track record in developing scalable cloud services, medical imaging software, and IoT systems. Strong background in machine learning, data mining, and distributed systems with expertise in C#, Python, AWS, and modern software engineering practices.

EXPERIENCE

Amazon Web Services (AWS)

Senior Software Engineer

Sep 2022 - Present

Greater Seattle Area

- Working on mobile device management and mobile applications (Sep 2022 - Present)
- Developed AWS Connectivity Client for AWS Verified Access enabling secure access to non-HTTPS protocols (Jan 2024 - Nov 2024)
- Contributing to AWS enterprise engineering solutions and hybrid work environment initiatives

Amazon Web Services (AWS)

Software Developer / Software Developer II

Jul 2017 - May 2021

Greater Seattle Area

- Launched AWS new service "Amazon WorkLink" - secure mobile browsing solution for enterprise customers (Jul 2017 - Dec 2018)
- Developed Alexa for Business platform with enterprise voice solutions and integrations (Jan 2019 - Dec 2019)
- Worked on AWS WorkLink service development and secure mobile browsing solutions for enterprises (Jan 2020 - May 2021)
- Contributed to service architecture, implementation, and scalable cloud solutions

University of Colorado Boulder

Graduate Research Assistant

Dec 2015 - Jul 2017

Boulder, CO

- Developed firmware for YPOD (Arduino Yun + chemical sensors) low-cost air quality monitoring system
- Built MongoDB backend on AWS for real-time data streaming from Arduino Yun WiFi modules
- Integrated YPOD data with OpenAQ real-time air quality database for global accessibility
- Collaborated with Prof. Michael Hannigan on environmental monitoring research

University of Colorado Boulder

Graduate Teaching Assistant

Aug 2015 - Dec 2015

Boulder, CO

- Taught Data Structures in C++11 to undergraduate students under Prof. Rick Osborne
- Conducted lab sessions, graded assignments, and provided student mentoring

Siemens Healthcare

Senior Software Engineer

Jan 2014 - Jul 2015

Bangalore, India

- Designed and developed software components for Syngo.Native medical imaging platform
- Built display manager for DICOM image rendering using Direct3D and WPF
- Prototyped data management modules for medical imaging software
- Performed unit testing and code reviews for critical healthcare applications

Siemens Healthcare

Systems Engineer

Jul 2011 - Jan 2014

Bangalore, India

- Developed and maintained medical imaging software with focus on performance optimization
- Improved system performance by 5% and reduced memory leaks by 100 MB/hr
- Integrated third-party software packages into Syngo.Interventional product
- Provided technical training on Microsoft technologies (WPF, WCF, PRISM) to team members
- Created comprehensive documentation for software components