

VENKAT RAMSHESH (LinkedIn)

WORK HISTORY

Field Engineer, 05/2022 - present

United States Citizenship and Immigration Services (USCIS)

- Installation and support for laptops, workstations, printers, and AV equipment of USCIS staff, students, classroom, and offices ensuring minimal downtime
- Troubleshooting computer, printers, scanners, and network issues
- Regular system software updates, hardware fixes, imaging of computers, maintenance of system servers and switches, UPS, VPN/remote worker support
- Addressing of tickets, customer issues in a timely manner and inventory management, PowerShell for active directory reports. **CompTIA A+** certified
- AWS Community Builder, Certified in AWS Solutions Architect Associate and Certified Cloud Practitioner. AWS Serverless learning badge. Written several blogs and implemented projects for:
Networking: VPC, Subnets, NAT, IGW, Egress gateway, Workspaces, VLANs, routers, switches, wireless access points, TOR router
Highly available and scalable architecture: Conference raffle webpage using CloudFormation, ALB and autoscaling.
Instances: Blog page on EC2 instance (<http://44.207.232.191:8000/>), RDS instances for database, Jump box
Serverless/Event Driven: API's, Lambda function, Dynamo DB tables, SNS, SQS, SAM, Transcribing, chat app
Storage: S3 for static website (<https://vramsheshpersonalblog.com>), EFS, EBS and file transfer family
Automation: CI/CD, Jenkins, Ansible, Elastic beanstalk for raffle webpage, Docker for HTTP server, CloudFormation templates, Python boto3 for creating S3 buckets, Systems Manager
Databases: SQL and NoSQL databases
Security/Delivery: Encryption, SSL certificates for website, Presigned URL, site-site and client VPN, CDN, Secrets Manager, IAM, Organizations, Cognito, penetration testing
Migration/upkeep: Server and database migration
Query: Athena
- Learnt Python, HTML/CSS (front-end), and Flask (back-end) programming during personal time. (Code for few projects: <https://github.com/kris1878/pythonprojects>) Implemented projects:
HTML/CSS: Personal website (<https://vramsheshpersonalblog.com>)
Serverless: s3 photos, video transcribing
Flask/API: Personal blog, Café shops, Calorie tracker, Stock news, Spotify songs list, URL shortener, serverless chat app
Games: Pong, snake, turtle race, quizzlet
Security: SSL certificate tracker, packet sniffer, password generator
Lifestyle: Pomodoro, rain alert, birthday wisher
Graphing: Stock graphing project using matplotlib, web scraping
Used libraries like Flask, Requests, Pandas, Matplotlib, Plotly, NumPy, boto3, beautiful soup and Turtle for these projects.
- Preparing for the **AWS Professional certification, CCNA, and currently dabbling in JS and Linux.**

Field Engineer II, 11/2020 - 05/2021

Cytek Biosciences

- Installation and support for **Aurora flow cytometer** in Philly/NJ area in a timely manner
- Regular system preventative and update visits
- Identified major system issues that could arise and provided solutions for these problems.
- Adjusting parts stock, generating install and PM reports
- Updating manuals, technical documentation



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PROFESSIONAL SUMMARY

Motivated, collaborative biomedical engineer skilled in IT, cloud, programming, and microscopy. Effective IT field engineer offering excellent skills in installation, training, maintenance, and testing of systems. Forward-thinking professional offering years of experience working in fast-paced environments. Known for reliability and knowledge. Organized and dependable candidate successful at managing multiple priorities with a positive attitude.

CERTIFICATIONS & MEMBERSHIPS

- AWS Certified Solutions Architect Associate, September 2022
CVBPEGQCRJE4Q1S0



- AWS cloud practitioner, June 2022
KCZ7CJ8JFEB4Q0KH



- AWS Community Builder, March 2023



- AWS Serverless learning plan badge, March 2023



- CompTIA A+, March 2023
COMP001022210326



Field Engineer II, 04/2020 - 11/2020

Cytiva

- Installation and support for **OMX super resolution microscopes** (OMX V3, V4, SR, SR plus and FLEX models) in North America, Asia, and Europe in a timely manner
- Troubleshooting and fixing system issues on-site and remotely
- Minimizing average downtimes ~1 week
- Yearly preventive maintenance (PM) and hardware/software updates
- Updating manuals, technical documentation
- Adjusting parts stock, generating install and PM reports, quotations

Field Engineer I, 01/2015 - 03/2020

GE Healthcare Lifesciences

- Installation and support for **GE OMX super resolution** (OMX V3, V4, SR and SR plus models) and Delta Vision microscopes in North America, Asia and Europe
- Trained users on image analysis software
- Troubleshooting and fixing system issues on-site and remotely
- Yearly PM and hardware/software updates
- Customer support and training of end users both remotely and on site, updating manuals.
- Hired and supervised subcontractors to improve production and meet critical deadlines.
- Interacted effectively with site engineering team and field staff to coordinate work that complied with design and installation documents.

Research Instructor/Facility Manager, 07/2011 - 12/2014

Medical University of South Carolina

- Provide bioengineering and managerial support for the successful day to day working of the **Advanced Imaging Core** which include eight confocal, multiphoton & fluorescence microscopes and image processing workstations.
- Instruct users on microscopy/imaging usage and projects, consult on projects involving use of light microscopy techniques within and outside the university.
- Consulted users on image analysis and processing.
- Organizer and instructor for the 2014 Fifth and 2012 Fourth Charleston Light Microscopy Workshop for the Biosciences
- Assisted in successful NIH grant application as part of Cell and Molecular Imaging resource.
- Expanded the core instrumentation from two to eight microscopes during my tenure.
- Led facility management staff and consultants in producing business plan that focused on facility operations.

Bioengineer/Facility Manager, 12/2007 - 06/2011

Medical University of South Carolina

- Provide bioengineering and managerial support for the successful day to day working of the center for **cell death, injury, and regeneration (CCDIR) and cell and molecular imaging resources**.
- Organized and instructed for the 2010 Third and 2008 Second Charleston Light Microscopy Workshop for the Biosciences
- Assisted in successful NCI and NIH grant application from Hollings Cancer Center as part of Cell and Molecular Imaging resource.
- Evaluated facility operations and personnel for safety and health regulations compliance

- Programming for Everybody (Getting Started with Python) XCZBAVAEH675
- Cisco Certified Network Associate, May 2000 (Working on recertification)

PROGRAMMING SKILLS

Python, Matlab, C, Image J, HTML/CSS, Bootstrap, Node JS

EDUCATION

Ph.D., Biomedical Engineering, 2008
University of North Carolina - **Chapel Hill**

M.S, Biomedical Engineering, 2002
University of North Carolina - **Chapel Hill**

B.E, Instrumentation Engineering, 1999
Mumbai University/University of Mumbai

PROFFESIONAL ACTIVITIES

- Reviewer for Journal of Biomedical Optics, Methods and Microscopy & Microanalysis
- Intravital Imaging Symposium at NIH, Bethesda, May 2011
- 2009 Workshop on FRET Microscopy, University of Virginia, Charlottesville
- Analytical and Quantitative Light Microscopy Course 2006, Marine Biological Laboratory, Woods Hole, Massachusetts

EXTRACURRICULAR ACTIVITIES

- Member of UNC squash team
- Recreational salsa dancer and tennis player

SELECTED PUBLICATIONS

Ramshesh VK, Lemasters JJ. Pinhole shifting lifetime imaging microscopy (PSLIM). Journal of Biomedical Optics, 13 (6):064001, Nov-Dec 2008

Ramshesh VK, Knisley SB. Use of light absorbers to alter optical interrogation with epi-illumination and transillumination in 3-d cardiac models. Journal of Biomedical Optics 2006; 11

Ramshesh VK, Knisley SB. Spatial localization of cardiac optical mapping with multiphoton excitation. Journal of Biomedical Optics 2003; 8:253-259