Abishekraj (Raj) Vinayagar Gnanasambandam

Coventry, United Kingdom | +44 7767930675 | vgsabishekraj@gmail.com | github.com/abishekrajvg | linkedin.com/in/abishekrajvg

EDUCATION

University of Warwick   **Coventry, United Kingdom**
Master of Science in Computer Science   Expected **Sep 2023**
- Modules include: Data Analytics, Data Mining, NLP, Advanced Computer Security, Game theory, & Agent-based systems
- Dissertation Project: Mitigating Device and Behavioral Heterogeneity in Federated Learning
- Course Rep in the Warwick Student Staff Liaison Committee (SSLC) representing the MSCS cohort

Anna University - Panimalar Institute of Technology   **Chennai, India**
Bachelor of Engineering in Computer Science   **Apr 2019**
- Modules include: Data Structures, DBMS, Comp Arch, Networks, DAA, Distributed Systems, Comp. Forensics, AI, Comp Sec.
- Dissertation Project: IDROID - Intelligent DNA Phenotyping Global Recognition and Oblivious Image-Processing
- Partnered in experimental projects and presentations as an Entrepreneurship cell committee member
- Spearheaded student-led summer boot camps for industry-oriented training for non-tech students in Programming, SQL, and DS

TECHNICAL SKILLS

- Adept at **Python** and **C++**
- Proficient in **Java Core** and **Advanced**, with knowledge in **Maven**, **Spring Framework**, **Hibernate ORM**
- Well-versed with the **Ubuntu OS** through the terminal and adroit at **Shell Scripting**
- Amicable grasp of **SQL,** specifically in Apache ignite and PostgreSQL
- Accustomed to **Git** version control with practice in GitHub and Bitbucket
- Commendable expertise in **Docker** containerization and **Kubernetes** orchestration
- Functional knowledge in Azure infrastructure and have Built, deployed, scaled, and managed clusters manually through **Azure Kubernetes Service** and automated through **Azure DevOps Pipelines**

PROFESSIONAL EXPERIENCE

Infosys Limited   **Chennai, India**
Senior System Engineer   **Oct 2021 - Aug 2022**
- Orchestrated sprint-wise software releases as a Release Manager to the offshore team of ten developers, undertaking:
  - Code review and merging multiple feature & development branches into master and release branches across six Git repositories
  - Regression testing of dependent modules, versioning & packaging into docker images
  - Documenting release updates in changelogs and Wiki pages, deployment instructions for QA, Staging, and Production environments
  - Delivering to QA and Production along with deployment support
  - Managing bug fixes, hotfixes, incremental updates, and final versioning
- Collaboratively Investigated multiple Proof-Of-Concept efforts in the interest of cost and presented tangible results to stakeholders
  - Designed a seamless weekend shutdown Cron tool with auto deployment & data backup/restore to scale dormant nodepools & pods
  - Implemented traffic-based autoscaling through customized scripts, Kubernetes operators, and Azure's horizontal pod auto-scaling based on CPU utilization and volume of live data ingested, dynamically scaling down up to just 30% of nodes, reducing cost up to 70%
- Recognized for my concise and meticulous documentation of every Jira task, independent experiments and POC efforts
- Mentored five new developers & testers on the API development flow, project-specific cloud fundamentals, Git code management, and containerized application build & deployment
- Provided round-the-clock support towards Production deployments and miscellaneous troubleshooting

System Engineer   **Aug 2019 - Sep 2021**
- Served as a critical developer in the cloud migration of a monolithic AT&T Big Data Analytics application into microservices on Azure.
- Built RESTful APIs using Java, integrated with customized distributed Apache Ignite & PostgreSQL databases
- Overhauled scripting of YAML config-driven tools in Python & Bash to build, share Docker containers and deploy into Kubernetes pods.
- Defined holistic claim on the Azure infrastructure by building, copying, deploying, and scaling containerized apps using Azure Container Registry and Azure Kubernetes Service manually through shell scripts on Azure VMs and automated via Azure DevOps Pipelines
- Established solid practice of software development through Agile Scrum methodology

System Engineer Intern   **Dec 2018 - May 2019**
- Accentuated solid grasp of industry-oriented programming through rigorous training and evaluation
- Developed an e-commerce web app employing Java Spring suite and Angular JS
- Furthermore, selectively upskilled in the foundations of SAP Hybris

Oil and Natural Gas Corporation   **Chennai, India**
Intern   **Jun 2016**
- Explored legacy systems and the application of computers in the field of Geo-Sciences
- Developed data retrieval and processing tools in C++

CERTIFICATIONS

1. Microsoft Azure Fundamentals AZ900 (October 2021)
2. Grid Gain Developer Essentials: Apache Ignite (October 2021)
3. Certificate in Digital Transformation Program – Java Enterprise Apps with DevOps National Institute of Information Technology (NIIT)
   - Trained in Java EE Server-side technologies, Spring suite, Hibernate and DBMS through H2 DB
   - Gathered rudimentary concepts of Agile methodology and DevOps in software development