# Anurag Kallurwar

Actively seeking software engineering roles for 2025

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## EDUCATION

**Rochester Institute of Technology**                                                                                             *Rochester, NY*
Master of Science, Computer Science, CGPA: 4.0/4.0                                                          *08/2022 – 05/2025*
**Coursework:** Analysis of Algorithms, Distributed Systems, Big Data Analytics, Intro to Artificial Intelligence (AI), Intro to Big Data, Machine Learning, Computational Geometry, Computer Vision, Applied Statistics

**Pune Institute of Computer Technology**                                                                                       *Pune, India*
Bachelor of Engineering, Information Technology, CGPA: 8.70/10.0                                      *08/2015 – 05/2019*
**Coursework:** Data Structures, Object-Oriented Programming, Design and Analysis of Algorithms, Computer Networks, Operating Systems, Database Management Systems, Software Engineering, Distributed Systems, Cloud Computing.

## SKILLS

**Languages/DBs:** Python, C#, Java, C++, PowerShell, HTML5, CSS, JavaScript, SQL Server, PostgreSQL, NoSQL, MongoDB, Bash, Oracle
**Frameworks:** Flask, Django, Pandas, NumPy, ASP.NET MVC, .NET Web API, NUnit, React, Ember.js, AJAX, Junit, Node.js, Angular, Entity
**Tools/OS:** Windows OS, Linux OS, Git, GitHub, JIRA, Jenkins CI/CD, Postman, Apache Spark, Azure, VS Code, HiveMQ, RabbitMQ
**Certifications:** Microsoft Certified: Azure Fundamentals (AZ-900), Secure Code Warrior: Yellow Belt (Java\C#)

## WORK EXPERIENCE

**AgFirst Farm Credit Bank**                                                                                                             *Columbia, SC*
Application Developer Intern                                                                                                      *05/2024 – Present*
- Architected and validated 2 REST APIs using C#, .NET Core, PL/SQL with resp. Azure Pipelines for streamlining application deployments.
- Facilitated development for Integrated Transactions API for seamless data flow of transactions from business to ACBS data store.
- Conducted comprehensive PoC on Azure AI Document Intelligence for data extraction on 100+ notices produced daily for ACBS Commercial Loan System.

**Rochester Institute of Technology**                                                                                             *Rochester, NY*
Student Lab Instructor and Grader: CSCI142 – Computer Science II, CSCI261 - Analysis of Algorithms       *08/2023 – 05/2024*
- Assisted weekly labs for groups of 10-12 students, showcasing a commitment to excellence in teaching advanced object-oriented programming, data structures, algorithms, and design patterns in Python and Java.
- Evaluated and offered feedback on 200+ programming homework assignments and projects.

**HSBC Software Development India**                                                                                             *Pune, India*
Sr. Software Engineer, Software Engineer                                                                                  *07/2019 – 06/2022*
- Pioneered agile software development of 20+ automation solutions to streamline the End-User services leveraging C#, .NET Framework, .NET Core, SQL Server, PowerShell, Python, JS, React, Flask, Azure, and DevOps tools.
- Designed, built, and supported 3 Web and 10 Windows applications, 5 RESTful APIs & Web Services, 15 back-end scripts, and over 5 SCCM Wrappers, leading full stack development from gathering requirements through deployment.
- Programmed a user profile migration tool adopted by 300K+ employees to sync settings across systems, reducing onboarding time by 40%.
- Independently engineered an asset health-checking application to monitor and fix over 100 client devices simultaneously and remotely.
- Automated software packaging process, cutting packaging time in half, and reducing support ticket volume by 20%.

## TECHNICAL PROJECTS

**Robust High-Speed Multi-Device Systems**                                                                            *02/2024 – 05/2024*
- Engineered a system using Dockers to simulate sensors producing 1000 data points/s of time-series data via Lab Streaming Layer (LSL).
- Devised a reliable dual-topic heartbeat monitoring system employing MQTT, HiveMQ, Mosquito, and Python.
- Utilized HAProxy load balancing for automatic failover, and bolstering fault tolerance achieving 99% uptime.

**Robot Motion Planning**                                                                                                             *08/2023 – 12/2023*
- Implemented computational geometry algorithms for safe robot navigation through complex environments with up to 10 obstacles.
- Incorporated obstacle-avoiding techniques such as Voronoi Diagrams and Visibility Graphs utilizing Python and C++.
- Documentation and demonstration with up to 10 pixels sized robot: https://cs.rit.edu/~ak6491/csci716/index.html

**Instacart Market Basket Analysis**                                                                                          *01/2023 – 04/2023*
- Analyzed 1M rows of Instacart dataset, performing association rule mining to uncover relationships between over 50,000 products.
- Identified top 10 product bundles with the highest affinity and visualized the latent information.

## ACHIEVEMENTS / AWARDS

**Rochester Institute of Technology - *Scholarship***                                                                    *12/2023*
- Awarded a CS graduate scholarship based on a perfect 4.0/4.0 GPA, earning the distinction of summa cum laude.

**Smart India Hackathon '19 - *Winner***                                                                                         *03/2019*
- Secured 1st place among 100,000+ participants at Smart India Hackathon 2019, organized by the Government of India
- Spearheaded a team of 6 to deliver a production-ready OCR-based solution to convert paper-based medical records to XML data.

## LEADERSHIP / VOLUNTEERING

**PICT IEEE Student Branch (P.I.S.B.)** | *Pune, India* | *08/2015 – 05/2018* | Development and Programming Head, Organizer, Volunteer