Ankush Singh

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Education

Auburn University, Auburn, AL | *Master's in Computer Science* - Software Engineering, Dec 2024
• Completed accelerated 2-year program in 1.5 years
Columbus State University, Columbus, GA | *Bachelor of Science in Computer Science* - Software Systems, Dec 2022

Technical Skills

Programming Languages: Java, Python, C, C#, JavaScript, HTML, CSS, Bash
Frameworks: Django, Flask, .NET , ReactJS, TensorFlow, NumPy, Pandas
Cloud & DevOps: AWS, Kubernetes, Docker, Jenkins, Terraform, Azure DevOps, CI/CD
Databases: MySQL, MariaDB, SQL Server
Tools: Git/GitHub, IntelliJ IDEA, Visual Studio, JIRA, Bandit, Codacy
Machine Learning: Logistic Regression, Naive Bayes, K-means

Work Experience

Global Payments, **Columbus, GA** | *Software Engineer Intern* (June 2022 – December 2022*)*
- **Engineered automation tools** for global payment services and optimized Kubernetes clusters, improving efficiency and boosting performance by 25%.
- Automated **SSO API cert-expiry alerts**, reducing compliance risk.
- **Designed and deployed Smoke Tester tool** that automated integration validation, cutting deployment errors by 40% and accelerating release cycles.
- Authored technical docs & enhanced **SRE info center,** streamlining operations & onboarding.

Best Buy, **Columbus, GA**| *Product Flow Specialist* (August 2020 – January 2021*)*
- Improved product flow processes, resulting in a 15% increase in sales.
- Recognized for communication skills and workflow efficiency.

SK Market, **Columbus, GA**| *Manager & Cashier* (March 2019 – Present*)*
- Managed daily operations, including reports, employee scheduling, and paperwork.

Maple Party Shop, Columbus, GA | *Cashier* (*September 2018 – December 2019)*
- Processed daily transactions with 100% accuracy and ensured smooth operations.

Leadership & Contributions

Cloud Security Workshop: Delivered workshop on cloud security at Lucid Infosystems ([YouTube](#)).
STARS Leadership (2020): Boosted student participation by 20% through leadership initiatives.
Publication : Contributed to CSU online repository, History From Below ([Publication Link](#)).

Projects

- **Security Analysis (DevSecOps):** Automated security vulnerability detection using Bandit**,** GitHub Actions**,** and Codacy**,** cutting manual audits by 50% and improving compliance reliability.
- **Infrastructure Management (Terraform/Docker):** Deployed automated Docker-based infrastructure using Terraform and CI/CD pipelines, increasing workflow efficiency by 30**%** and supporting scalable environments.
- **Customer Churn Prediction (ML):** Built and validated Logistic Regression and Naive Bayes models in Python, achieving 85% accuracy on Telco churn dataset to inform retention strategies.