Tanmay Arora

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PROFESSIONAL EXPERIENCE

UCF-IT | *Software Engineer* **Aug 2024 – May 2025**
- Developed a full-stack internal search website, enabling 3x faster API-based cache queries for authorized users.
- Enhanced security by implementing JWTs and OAuth-based GitHub authentication to ensure secure access control.
- Improved automation by integrating GitHub Actions for daily data syncs, reducing manual effort by 90%.
- Crafted Python scripts to automate the migration of F5 data to Terraform and to gather critical system data from platforms such as F5 and GitLab, facilitating analysis for infrastructure optimization.
- Actively contributed to cross-functional meetings to debug deployment issues and ensure fast resolution, decreasing ticket turnaround time.

Skills Utilized: Java, Python, JavaScript, Azure, Terraform, JSON, YAML, GitHub, CI/CD, Security, Testing, Documentation

University of Central Florida | *Graduate Teaching Assistant* **Jan 2024 - May 2025**
- Evaluated assignments and supported project-based learning in Database Systems course, focusing on relational models, SQL, and web schema design, leading to a 95% project submission success rate.
- Supported 150+ students by holding weekly office hours, and mentoring in Python and Git best practices.
- Guided students in debugging and optimizing algorithms, leading to a 93% project submission success rate.

National Medico Agency, India | *Software Engineer* **Jul 2020 - Jul 2023**
- Built and maintained a custom ERP and inventory platform using Java, Spring Boot, and MySQL, streamlining stock tracking for 1,500+ products and reducing manual effort by 60%.
- Developed a React.js portal for B2B clients to view products and send inquiries, cutting phone/email orders by 70%.
- Created 10+ REST APIs with Spring Security and JWT auth, improving data control and access security.
- Integrated features like PDF invoice generation, email alerts, and analytics dashboards, saving staff 4+ hours/week.
- Deployed the full stack using Docker, GitHub, and Nginx on cloud infrastructure with 99.9% uptime.
- Collaborated with non-technical staff to prioritize features and enhance usability, leading to ~85% user satisfaction.

Skills Utilized: Java, Spring Boot, MySQL, React.js, Node.js, Spring Security, JWT, REST APIs, Docker

PROJECTS

CloudSec Inventory Search Portal
- Developed a cloud-native inventory search portal using Azure Functions and JavaScript, enabling real-time, secure access and improving internal user access speed by 60%.

Cache and Memory hierarchy Simulator.
- Simulated a flexible cache module using Java for any memory hierarchy level, implementing replacement, inclusion, and write policies. Evaluated performance, area, and energy using the SPEC-2000 benchmark.

Data Mining II Project – Heart Disease Risk Prediction
- Built a logistic regression model on clinical data to predict heart disease risk with 84% accuracy (AUC: 0.91), demonstrating skills in data cleaning, feature selection, and model interpretability applicable to financial risk analysis.

TECHNICAL SKILLS

- **Languages:** Java, Python, C, C++, HTML, CSS, JavaScript
- **Frameworks & Libraries:** Spring, Spring Boot, Junit, Express.js, React.js, Angular.js, Node.js, Bootstrap
- **Databases:** SQL, MS-SQL, MySQL, PostgreSQL, MongoDB
- **Cloud Platforms & Containerization tools:** AWS, Docker, Kubernetes
- **DevOps & Tools:** Linux, CI/CD, Git, Terraform, Ansible, Maven, Gradle, VS Code, IntelliJ, RESTful APIs, Jira

EDUCATION

University of Central Florida, Orlando, FL **Aug 2023 - May 2025**
Master of Science, Computer Science (GPA:3.98/4)

Uttarakhand Technical University, India **Aug 2016 - Sep 2020**
Bachelor of Technology, Computer Science