Arjun Sivakumar

2205 Hazelwood Dr, Urbana, IL | arjuns8@illinois.edu | (217) 200-0861 | Arjunsivakumar28.github.io

linkedin.com/in/arjun-sivakumar28 | github.com/Arjunsivakumar28

Education

Virginia Tech
M.Eng. Computer Science and Applications **(Admitted)** Expected: May 2026

University of Illinois at Urbana-Champaign
B.S. Engineering Physics w/ minor in Computer Science Expected: Dec 2024

- **GPA:** 3.38/4.0
- **Coursework:** Data Structures and Algorithms, Data Visualization, Computational Photography

Skills

Programming: C++, Java, Python, R, JavaScript, MySQL, MongoDB

Framework/Tools: React, Spring, Azure DevOps, Git, Docker, Spyder, Matlab, Rhino3D

Experience

Junior Developer April 2024 - June 2024
Just Driv Car Rental Company Chennai, India

- Tools Used: HTML, CSS, JS, Java, React, Spring
- Designed **5+** front-end screens, landing page, and relevant UI/UX components
- Constructed ER model using MongoDB for the company data and performed relevant databasing
- Developed fundamental aspects of data access and data service layers using Java and Spring
- Built functionalities and business logic involved in performing vehicle reservations
- Collaborated through daily team meetings on project plans, customer requirements, and deployment

Full-Stack Developer Intern Aug 2023 - Jan 2024
Computer Solutions East, Inc. Quito, Ecuador

- Tools Used: HTML, CSS, JS, Java, React, Spring
- Created and designed a web app under the SCRUM management process using a layered architecture
- Integrated QuickBooks to implement ***15+*** features and performed reconciliations for ***1900+*** customer entities
- Utilized SpringBoot to implement REST API architecture and OAuth2 authorization framework
- Processed card and bank transactions securely through databasing and tokenizing sensitive details under the QuickBooks workflow
- Analyzed ***8+*** bottlenecks with back-end systems and API calls and optimized the response times
- Designed and implemented ***50+*** UI/UX components for ***8*** front-end screens
- Conducted rigorous testing and debugging with the testing team to ensure application's reliability
- Collaborated with DevOps team to deploy web app on Azure

Projects

Reverse Image Search Engine Jan 2022 - Present

- Tools Used: Python, OpenCV, Spyder, VGNet
- Devise a CBIR program that can accurately and efficiently retrieve wildlife photos when presented with query
- Implement a modified VGGNet model to construct descriptive features, and compare using chi-square distance
- Iteratively improve the engine's precision and time efficiency by manipulating model parameters and utilizing various pre-processing techniques

Certifications

MIT IDSS Data Science and Machine Learning Jan 2024 - May 2024

Besant Technologies Full Stack Course July 2023 - April 2024