

Arjun Chowdhary

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Professional Summary

A results-driven Application Architect with extensive experience in full-stack development, AI/ML projects, and cloud computing. Proficient in Python, Java, C#, .NET, AngularJS, ReactJS, and highly adaptable across various high-level languages. Strong foundation in software engineering principles, project management, and data science. Recognized for academic excellence, technical expertise, and leadership roles.

Technical Skills

- **Programming Languages:** Python, R, C#, Java, JavaScript, TypeScript, C++, MATLAB
 - **Libraries & Frameworks:** NumPy, Pandas, TensorFlow, Jupyter Notebooks, RStudio, .NET Core, ASP.NET MVC, WinForms, AngularJS, ReactJS, Node.js, Spring, Hadoop
 - **Cloud Platforms:** AWS (Elastic Beanstalk, Redshift), Microsoft Azure
 - **Databases:** SQL Server, MongoDB, RDBMS Application Development
 - **DevOps & Tools:** Git, GitHub, TFS, CI/CD pipelines, Selenium (C#), Docker, Kubernetes
 - **Operating Systems:** Windows, Linux, Unix
 - **Web Development:** HTML5, CSS3, jQuery, Bootstrap, RESTful APIs, JSON
 - **AI/ML & Data Science:** Machine Learning, Neural Networks, Natural Language Processing, Data Analysis, Predictive Analytics
 - **Software Practices:** Agile Methodologies, Test Automation, Software Testing, Project Management (PMP), Microservices Architecture
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Professional Experience

Application Architect

Assa Abloy | April 2024 – Present

- Focused on ensuring the **cybersecurity** of the platform by implementing best practices and industry standards for secure software development.
- Collaborated with **third-party tools** like **Cobalt** for penetration testing and **Snyk** to manage and mitigate vulnerabilities.
- Worked across teams to address security issues discovered during testing and ensure continuous improvement in application security.
- Led the definition and design of the architecture for new applications, aligning with business goals while maintaining scalability and security.
- Improved the documentation of existing systems to ensure better clarity and maintainability for ongoing development and security audits.
- Utilized **Azure tools** and cloud resources to architect highly scalable and resilient systems.
- Defined and refined **business flows** across applications to streamline processes and ensure alignment with organizational objectives.

- Worked with architects from other groups to update about the progress of teams and manage any roadblocks.

Senior Software Development Manager

Assa Abloy | Dec 2022 – April 2024

- Led the migration of the platform to **.NET 6**, improving the overall system performance and scalability.
- Worked extensively on the **Azure cloud platform** to develop, deploy, and manage applications, and team's work progress.
- Defined technical requirements for new features and coordinated with different teams to create solutions aligned with customer demands.
- Managed the development and rollout of new features for mobile applications, ensuring seamless integration with the core platform.
- Actively collaborated with cross-functional teams (Product, Design, QA) to develop and prioritize features for various customer use cases.
- Supported team members in overcoming technical challenges and ensured high-quality code delivery by performing code reviews and providing mentorship.

Senior Software Developer

Assa Abloy | April 2022 – Dec 2022

- Collaborated with cross-functional teams across different countries to define requirements, understand business needs, and deliver high-quality features on time.
- Worked closely with Product Managers (PMs) and designers to ensure feature alignment with customer requirements.
- Led the daily stand-up meetings and actively participated in Agile ceremonies, ensuring effective team collaboration.
- Enhanced feature delivery speed by **50%** through code refactoring and optimizing processes with multi-threading.
- Utilized C#, .NET, and Angular 6 to develop and maintain scalable and reliable applications.
- Delivered key functionalities for new platforms and provided guidance to team members for overcoming technical challenges.
- Regularly reported progress, roadblocks, and key milestones to the Manager to ensure alignment with project timelines and goals.

Full Stack Developer

GRYPTECH Solutions Canada | Oct 2019 – April 2022

- Had a chance to work on SAAS based content management solution.
- Utilized Spring, Maven, Swing and related technologies to build and modify applications.
- Developed ASP.net Web API 2.
- Consumed Web API app for MVC Client.
- Worked on intuitive front-end screens with Angular-based front end for new version using HTML, CSS, Typescript to make screen adaptive applications.
- Updated the front-end applications as per requirements.
- Applied front end and backend validations.
- Used C# Razor Engine Code for Views.
- Wrote business logic in C# Classes and Java classes adopting best practices of dependency injection and Inversion of control.
- Wrote unit tests for integration and functional code of the system.
- Enhanced JQuery plugins for customized requirements for other parts of application.
- Provided support with production issues.

- Involved in JAD sessions and Product development meetings.
- Achieved targets on time in a professional Agile Scrum environment.
- Supported and enhanced the legacy products in ASP.net Web Forms applications.
- Developed certain modules with Real Estate management solution.
- Wrote stored procedures and Views as per the requirements.
- Developed modules related to property listings and history management.

Full Stack Developer

Vincent Associates Canada | March 2018 – Oct 2019

- Able to work on different solutions such as CRM and customized solutions.
- Active Participant of Agile Scrum team.
- Part of the team that upgraded an existing CRM application for Real estate sector.
- Developed a web API in C# that connects with SQL Server Database.
- Applied Entity Framework and LINQ as per the requirements.
- Wrote business logic and database related functions as part of application.
- Worked on different modules like Lead Management, Sales Team Management and Customer History Management.
- Used WinForms to develop applications for desktop.
- Developed adaptive front-end applications with ReactJS, CSS, HTML, Typescript and Bootstrap-4.
- Consumed the API with MVC Client.
- Applied MVC filters and worked on Views.
- Wrote Server-Side unit tests.
- Applied JavaScript and JQuery as part of the requirements.
- Worked on cross browser compatibilities.
- Wrote stored procedures, scripts in SQL Server.
- Actively supported several other solutions.

Freelancing

Jan 2017 – March 2018

- Designed and developed custom websites and web applications for small businesses.
- Specialized in responsive web design using HTML, CSS, JavaScript, and Bootstrap.
- Delivered full-cycle project development from requirements gathering to deployment.
- Managed hosting, domain setup, and site maintenance for clients.
- Provided tutoring to college students.

Education

Bachelor of Computer Science (Honors)

McMaster University

Diploma in Computer Systems Technician - Software Engineering

Sheridan College

GPA: 3.93/4.0 — High Honors, Medal for Highest Grades

Certifications & Courses

- AI Programming with Python Nanodegree — *Udacity*
 - Machine Learning A-Z: Hands-On Python & R in Data Science — *Udemy*
 - Artificial Intelligence A-Z: Build an AI — *Udemy*
 - Complete 2021 Web Development Bootcamp — *Udemy*
 - Node.js API Development for Beginners — *Udemy*
 - Unity Mobile Multiplayer Third Person Shooter — *Udemy*
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Awards

- **Medal for Highest Grades** — Sheridan College
 - **Scholarship for Academic Excellence** — GuardMe Insurance, Sheridan College (based on academic performance, 10 approx. for all international students across various courses)
 - **Academic Award of Excellence** — Sheridan College
 - **Award for Outstanding Achievement in Academics and Community Involvement** — Sheridan College
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Projects

- **Flappy Bird AI (Python):** Built a self-learning AI agent using NEAT and Pygame.
 - **Image Classifier (Python):** Classified dog images and breeds using AI/ML models.
 - **Stock Market Predictor (Python):** Predicted stock values using historical data and ML algorithms.
 - **Natural Language Processing (Python):** Sentiment analysis for movie reviews.
 - **Equipment Predictor (Python):** Demand forecasting for a bicycle shop using machine learning.
 - **Udagram (AWS, RESTful API):** Deployed a mini-Instagram clone to AWS Elastic Beanstalk.
 - **Movie Ticket Vending System (.NET, C#):** Developed a full-stack system for ticket booking and food catering.
 - **Library Management System (Java):** Standalone application using JavaFX/FXML.
 - **Mobile Web Shop (HTML, CSS, JQuery Mobile):** E-commerce platform for mobile devices.
 - **Car Rental System (SQL/PL):** Created advanced stored procedures for rental management.
 - **Knight's Tour (C#):** Solved and visualized knight's tour problem using Windows Forms.
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Relevant Coursework

Introduction to Programming, Web Systems and Web Computing, Development Basics, Computer Networks and Security, Databases, Computer Architecture, Introduction to Computational Thinking, Linear Algebra I, Engineering Mathematics I, Discrete Math for Computer Science, Introduction to Software Using Web Programming, Engineering Mathematics II-A, Introduction to Marketing, Data Structures and Algorithm Development in C, Introduction to Software Development, Automata and Computability, Concurrent Systems, Algorithms and Software Design, Neural Networks and Machine Learning, Operating Systems, Introduction to Data Science Methods, Algorithms and Complexity, Syntax-Based Tools and Compilers, Software Entrepreneurship, Software Testing, Java Programming, Web Development, Data Network Design and Configuration, Linux/Unix Operating Systems, Mobile Web Applications, Database Design and Implementation, Computer & Network Security, IT Project Management using PMP, RDBMS Application Development.