

Mahima Chacko

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EDUCATION

Drexel University

Bachelor of Science in Software Engineering, Minor in Data Science | GPA: 3.95

Philadelphia, PA

Sep 2021 - Dec 2025

EXPERIENCE

Software Developer - Instruments

Susquehanna International Group

Apr 2024 – Present

Bala Cynwyd, PA

- Develop a signaling system with C# and RabbitMQ to reliably send messages asynchronously between microservices, significantly enhancing system scalability and decoupling service interactions
- Implement concurrency to process 200k reference data records simultaneously, decreasing overhead by 88%
- Construct pipelines in C# and .NET to efficiently compare large volumes of data from diverse sources, streamlining data flow and facilitating timely data updates using Entity Framework
- Deploy microservices with Docker and Kubernetes to modularize architecture, boosting resilience and uptime
- Engineer a service to ingest data and expose it via GraphQL, improving query flexibility and performance
- Build apps to decommission 15+ legacy solutions and automate jobs in Tidal, reducing maintenance efforts

Software Developer - Corporate Systems

Susquehanna International Group

Mar 2023 – Sep 2023

Bala Cynwyd, PA

- Developed a web application using C# and ASP.NET MVC to map and filter 3,000 points in 8 locations
- Engineered REST APIs using Swagger and OData, enabling advanced querying and optimizing unit testing
- Implemented data caching with Redis to minimize database calls, achieving an improvement in response times
- Communicated with stakeholders to maintain and enhance application features based on their requirements

Senior IT Support Specialist

Drexel University, College of Computing and Informatics

Sep 2022 – Mar 2024

Philadelphia, PA

- Delegated tasks and trained coworkers to successfully complete responsibilities and strengthen their skills
- Crafted clear and concise technical documentation for internal and external audiences, improving software usability

PROJECTS

Drexel Catalog Scraper | *Python, BeautifulSoup, PyMongo, Requests, VEnv, MongoDB, GitHub*

Jun 2024 – Jul 2024

- Developed a web scraper in Python to extract course data from Drexel University and stored it in MongoDB
- Ensured data reliability by implementing data cleaning processes, enhancing accuracy and consistency
- Utilized tokenization techniques to parse and structure course data into a hierarchical tree
- Coordinated data updates to establish current dataset by integrating new entries and removing old ones

Self-Care Sidequests | *HTML, CSS, JavaScript, Firebase, GitLab*

Jan 2022 – Jun 2022

- Collaborated with 3 students to create a productivity website, allowing users to manage their tasks and workflow
- Applied Agile and Scrum methodologies to effectively complete features and organize issues in a Kanban board
- Directed 5 features and prioritized 12 user stories and 90+ issues as Product Owner, maintaining project goals

SKILLS

Languages: C#, Java, Python, JavaScript, SQL, GraphQL, HTML, CSS

Frameworks: .NET, ASP.NET, ASP.NET MVC, Entity Framework, Bootstrap, Tailwind

Tools: Git, Visual Studio, Visual Studio Code, IntelliJ, Bash, Jira, Confluence, Fisheye, Crucible, Tidal Automation

Libraries: NUnit, Moq, Newtonsoft.Json, LINQ, NLog, JUnit, JQuery

Databases: Microsoft SQL Server, Oracle Database, PostgreSQL, MongoDB

COURSEWORK

- Software Architecture I, II
- Software Specification and Design I, II
- Data Structures
- Database Management Systems
- Human-Centered Design
- Software Project Management