

BLESSY BOBY

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EDUCATION

Master of Science in Computer Science and Engineering (Software Systems)

Expected Dec 2023

University at Buffalo, The State University of New York

Relevant Coursework: Introduction to Machine Learning, Algorithms Analysis and Design, Computer Security, Computer Architecture, Data Models and Query Languages, Blockchain

Bachelor of Technology in Computer Science and Engineering,

Jul 2019

College of Engineering Trivandrum, APJ Abdul Kalam Technological University, Trivandrum, India

SKILLS

Programming Languages: C#, Python (Tkinter, NumPy, Pandas, SciKit-Learn), Bash, Groovy, R (Bioconductor), Solidity, Verilog, C

Web & Desktop Application Development: HTML, CSS, Bootstrap, Microsoft Expression Blend, JavaScript, Windows Presentation Foundation (WPF), MVVM, WinForms, ASP.Net (MVC & Web Forms), .NET (Framework & Core), ASP.NET Web/ REST API, Open API (Swagger), jQuery, AJAX, PostgreSQL, Microsoft SQL Server, Testing (JUnit, White Box, Black Box, Integration, System)

Software and Tools: Linux, Microsoft Office, Microsoft Visual Studio, Remix, Jupyter, PyCharm, RStudio, Postman, Jenkins, Git, Sourcetree, Bitbucket, Jira, Confluence, PC Guard, Inno, LaTeX, MATLAB, METIS

EXPERIENCE

Roswell Park Comprehensive Cancer Center, Buffalo, NY — Research Apprentice

Jun 2023 - Present

- Analyzing differential gene expression from bulk and single-cell **RNA** and **ATAC** sequencing experiments using **R**, **Bioconductor**, and **Python**, integrating data with clinical outcome data to find novel druggable targets in pancreatic cancer.
- Identified outliers** in data, highlighting need for further investigation and content review before accepting research findings for publication.

Bosch Global Software Technologies PVT LTD, Coimbatore, India — Software Engineer

Aug 2019 - Jul 2022

- Developed a **custom library** for monitoring C# tools used company-wide, enhancing online and offline tracking capabilities.
- Created **Enterprise-grade software tools** in WPF using C# within the .Net framework and Python catered for calibration engineers, **accelerating** calibration analysis process by an impressive **50%**.
- Spearheaded front-end development efforts for **Bosch's worldwide internal website** redesign, elevating user experience for **80%** of the product.
- Provided internal **Compilation** and **Encryption** support for Java and C# tools.
- Operated under **Agile** and **Scrum**, mastering **full software development cycle**, including coding standards, version control, builds, testing, and operations.
- Organized "Tea(m)-time" monthly **team-building** activities to foster effective communication and maintain a vibrant work environment.
- Facilitated comprehensive onboarding and training of new team members.

VSSC, Indian Space Research Organisation, Trivandrum, India — Project Intern

Aug 2018 - Jun 2019

- Built an **efficient distributed MPI** (Message Passing Interface) **framework** for solving computational problems, ensuring load balancing in a parallel computing environment.
- Worked on data consisting of **mesh files** in **VTK format**, which was converted into graphs and partitioned using METIS software.

PROJECTS

Online Dictionary (React, Material UI, Node.js, MongoDB, Kubernetes, IBM cloud)

Aug 2023 - Present

Online Dictionary built with React and Node.js, hosted on IBM Cloud, to offer word meanings with pronunciation. This project involves the implementation of word parsing and MongoDB storage, a User profile feature with Favorites and Learning, alongside the creation of components for "Word of the Day" and "Trending Words" based on popular searches.

8-bit Microprocessor (Verilog, Xilinx Vivado, Basys 3 FPGA Board)

Jan 2023 - May 2023

Designed, implemented, and simulated an 8-bit microprocessor, integrating critical components like program counter, instruction memory, register file, ALU, data memory, multiplexer, and control unit. Additionally, conducted extensive functional verification utilizing the Basys 3 FPGA board.

Bank of Buffalo (pgAdmin, ElephantSQL, HTML5, Bootstrap, Express, jQuery)

Jan 2023 - May 2023

Database management system and user-friendly Web application to efficiently store, manage, and retrieve data related to branches, users, user accounts, and transactions, enhancing customer and staff interaction.

Pokemon In A Block (Solidity, Truffle, Ganache, Goerli, Infura, OpenZeppelin, Web3, JavaScript)

Jan 2023 - May 2023

Conceptualized, tokenized, and deployed Pokemon cards into a **decentralized ecosystem**, fostering secure, transparent, and tamper-proof card trading while boosting trust and reliability within the community.

CERTIFICATIONS

- RBEI-NIPUN: Data Certified, Simplilearn:** Statistics, Data visualizations, Predictive analytics, Hadoop Big Data framework, PySpark, and Amazon Web Services (AWS)

ACHIEVEMENTS

- Bravo Award**, Bosch, 2021
- Spot Award**, Bosch, 2020
- Microsoft Student Partner**, 2017