Bhautik Sojitra

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EDUCATION

Bachelor of Computer Science First Class Honours   Sept. 2019 – May 2024
University of Manitoba   *Winnipeg, MB*
- GPA: 4.1/4.5
- Areas of Interest: Software Development, Computer Graphics, Theoretical Computer Science

EXPERIENCE

Software Engineer (8-months Co-op and Contract)   Jan. 2023 – Present
JCA Technologies, PTx Trimble   *Winnipeg, MB*
- Implemented a .NET MAUI mobile app for embedded control systems, eliminating reliance on laptops, and increasing field operations efficiency by 30%
- Ensured 99% user satisfaction through 24x7 support for .NET Core web applications and comprehensive documentation of critical user processes
- Migrated from NancyFx to ASP.NET, improving CPU performance by 50%
- Centralized file access and enhanced accessibility for 100+ users by integrating AWS S3 with the mobile app

Metadata Systems Developer Co-op   May 2022 – Aug. 2022
Manitoba Centre for Health Policy   *Winnipeg, MB*
- Expanded system accessibility to all browsers by independently migrating an HTML, CSS-based system to Django
- Migrated 100+ AccessDB files to MySQL server using Python scripts and consolidated them into 10 tables. This minimized data redundancy and enhanced data integrity and efficiency
- Reduced project onboarding time by 30% through detailed "How to" articles and implementation details

Teaching Assistant   Jan. 2022 – July 2023
Computer Science Department, UManitoba   *Winnipeg, MB*
- Courses: Distributed Computing, Operating Systems, Data Structures and Algorithms
- Delivered lectures to classes of 30+ students, enhancing their understanding of DSA concepts
- Organized one-on-one mentorship sessions resulting in improved academic performance and deep comprehension of core CS principles

PROJECTS

JewelryLedger | *Flutter, Dart, SQLite*   April 2024 – Present
- Automate 50% of financial record-keeping, leading to a 15% reduction in work hours for my dad's jewelry business
- Develop an intuitive mobile app, enabling paperless tracking of sales and inventory

Smoke Simulation | *OpenGL, C++*   Jan. 2024 – April 2024
- Pioneered a real-time smoke simulation, using OpenGL and Navier-Stokes equations
- Leveraged GPU parallel processing, boosting simulation performance by 35%

iRecipe | *Android Studio, HSQLDB, Java*   Jan. 2022 – April 2022
- Collaborated with a diverse team, contributing to the development of a user-friendly recipe app
- Led the testing phase, achieving 91% code coverage with unit and integration tests

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, Dart, SQL, JavaScript, HTML/CSS, R
Frameworks: .NET Core, .NET MAUI, Vue, Django, Node.js, Flask, xUnit, Processing, OpenGL, Bootstrap, Serilog
Developer Tools: Git, Docker, AWS, Visual Studio, Bash Scripting, WireShark, Jenkins, Google Play, App Store
Libraries: Syncfusion, jQuery, socket.py

OTHER EXPERIENCE

Natural Value Clerk (Part-time)   Sept. 2019 – Dec. 2023
Real Canadian Superstore   *Winnipeg, MB*