NISHANT KISHAN TECKCHANDANI

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EDUCATION

Virginia Tech, Blacksburg, VA | *MEng in Computer Science and Applications: GPA: 3.87*   *May 2023*
Middlesex University, Mauritius | *BSc in Information Technology: First Class Honors, GPA: 3.71*   *June 2018*

SKILLS

Programming/Technical Skills: Java, Python, C#, JavaScript, Kotlin, SQL, Azure, Google Cloud, AWS, SAS, REST API, Microsoft Graph API, HTML, CSS, JUnit, GitHub, Git, OOPS, .NET MVC, JQuery, NumPy, PyTorch, Tensorflow, Postman, Confluence, Rally, Unity
Industry Skills: Software Design, Agile Software Development, Object-Oriented design, Data Structures and Algorithms
Languages: Business Proficiency in **Japanese**, Native Proficiency in **Hindi**, Beginner level in **French**

EXPERIENCE

Virginia Tech Controller's Office   **Blacksburg, Virginia**
Graduate Assistant   *January 2022 - Present*
- Analyzed large volumes of datasets with SAS and SQL to effectively improve accounting/finance operation processes/workflows by 63%, eliminate bottlenecks, and reduce duplicative/redundant efforts
- Utilized Microsoft Power Automate and Graph API to build automated solutions for workflow improvements
- Migrated Controller's Office codebase from shared server to GitHub and trained 5 employees to use Git and GitHub

MicroStrategy, Inc.   **Tysons, Virginia**
Software Engineering Intern   *May 2022 - Aug 2022*
- Developed a distribution service feature to deliver MicroStrategy subscription content to Microsoft Teams chats/channels and SharePoint via the Microsoft Graph API and Azure
- Utilized Docker Containers to run Python scripts and execute MicroStrategy IO REST APIs and Microsoft Graph API HTTP requests in a distributed computing environment, which eased the load on the MicroStrategy Intelligence Server by 5%
- Implemented unit tests with Python's unittest mock library and used Jenkins for automation testing CI/CD pipelines
- Worked through all phases of the Software Development Life Cycle (SDLC) from analyzing business requirements, high-/low-level SE design, developing, testing, deploying the script, QA planning, to providing production support through documentation
- Operated in an Agile environment and collaborated with experienced cross-disciplinary teams in 2-week sprints using Rally to keep track of features and progress over the sprint

JK Innovative Solutions (JKIS)   **Port Louis, Mauritius**
Software Engineer   *November 2018 - August 2021*
Software Developer Intern   *May 2017 - October 2018*
- Deployed mobile and web solutions for retail and manufacturing clients to increase process efficiency by 20%+ across projects
- Handled end-to-end project management including assessment, development, testing, refactoring, and documentation
Key project: Ecommerce platform and Asset/Ticket/Invoicing/Quality Check Management Mobile Application
- Led a team of 3 engineers to develop cross-platform mobile apps (Flutter and Xamarin Forms) that records and syncs company's salesforce activity data with its CRM and ERP systems
- Implemented REST APIs with a Google Cloud backend to share resources from the client's CRM and other information systems
- Customized the mobile application for 6 companies to provide sales/renting/maintenance services of products for their clients
Key project: Poultry Processing Plant Product Traceability System
- Led a team of 2 IT engineers, 2 poultry managers, and 40 poultry staff to implement a Serial Shipping Container Code system used by a leading poultry processing plant in Mauritius (ARR $121 Mn+) to track production and fulfillment
- Developed mobile and web interface for scanning product barcodes and save/display product details; worked with the product and executive team to conceptualize and roll out the system
- Improved traceability and accuracy of product logistic reports by 40% with better data streams enabling faster decision-making
- Increased poultry processing and packaging productivity by 10% by eliminating manual record keeping of product information

Aberystwyth University   **Flic En Flac, Mauritius**
Research Assistant   *July 2018 - October 2018*
- Developed an expert system to help residents of Mauritius with employment law queries resulting in a publication with IEEE
- Built a predictive analytics system by utilizing Deep Neural Networks, Natural Language Processing, and Tensorflow to extract data from literature and predict outputs from user inputs
- Built and deployed a web interface using a FLASK web server, HTML/CSS/JavaScript, and implemented Speech Recognition/Synthesis with Google APIs