NISHANT KISHAN TECKCHANDANI

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EDUCATION

Virginia Tech, Blacksburg, VA | *MEng in Computer Science and Applications: GPA: 3.94*   *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, Flutter, REST API, Microsoft Graph API, HTML, CSS, JUnit, GitHub, Git, OOPS, .NET MVC, JQuery, NumPy, PyTorch, Tensorflow, Python unittest and mock, Postman, Confluence, Rally
Industry Skills: Software Design, Test Driven Development, Backend Development, Agile Software Development
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 data, via SAS and SQL, on accounting and finance operation processes to develop metrics and propose improvements that eliminate barriers, unnecessary workflows, and duplicative or redundant efforts
- Utilized Microsoft Power Automate and Graph API to build automated processes and implemented workflow improvements through providing documentation and communicating changes to Controller's Office employees about 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 efficiently run Python scripts and execute MSTRIO REST APIs and Microsoft Graph API HTTP requests 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 and low level SE design, developing, testing, deploying the script, QA planning, to providing production support through documentation
- Operated in an Agile environment with 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 employment law expert system using government literature, "Understanding Employment Law and Remuneration Orders in Mauritius" as a knowledge base, to assist Mauritian residents with Employment Law queries
- Built a predictive analytics system by utilizing Neural Networks, NLP, and Tensorflow to extract data from literature and predict outputs from user inputs, resulting in a publication with IEEE
- Built and deployed a web interface using a FLASK web server, and implemented Speech Recognition/Synthesis with Google APIs