

Ameya Nandakumar Potey

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Results-driven Software Engineer with 2.5 years of experience in strategic problem-solving and full-stack development

EDUCATION

Master of Science in Computer Science (4.0/4.0) <i>The University of Texas at Dallas</i>	Dec 2022 Dallas, TX
Bachelor of Technology in Mechanical Engineering <i>National Institute of Technology</i>	Jul 2018 Tiruchirappalli, India

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, Matlab, JavaScript, Bash, HTML/CSS

Tools and Frameworks: Java EE, React, Node.js, JUnit, SpringBoot, Kafka, Docker, Git

EXPERIENCE

Software Development Engineer <i>Citicorp Services India Pvt Ltd.</i>	Jul 2018 – Dec 2020 Chennai, India
<ul style="list-style-type: none">Single-handedly built an inter-platform messaging micro-service from scratch using SpringBoot framework, capable of consuming messages from multiple messaging protocols like KAFKA, gRPC and similarly transmitting it to the required destination.Developed an application for tracking and monitoring the vital performance metrics of the Stored Procedures of Database intensive applications of Citi, thus reducing response time and improving latency diagnosis.Built a system to reconcile FX sales data from across multiple source systems into a single streamline, resulting in reduction in the data mismatch across source systems by over 80%.	
Research Assistant <i>National Institute of Technology</i>	Jan 2018 – May 2018 Tiruchirappalli, India
<ul style="list-style-type: none">Analyzed the gait parameters (stride length, joint angles, ground reaction forces and energy expenditure) of over 50 healthy subjects chosen at random to determine their ideal values.Devised an algorithm to quantitatively determine the deviation of gait parameters from their ideal values in orthopaedic patients.Designed, simulated and fabricated a custom spring loaded crutch for patients with the required left and right ground reaction forces for faster recovery.	

PROJECTS

SONAR Dashboard <i>Java, Maven, Vue JS, Typescript, Git</i>	Mar 2020 – Dec 2020
<ul style="list-style-type: none">Modularized and redesigned a part of the front-end of Citi's Global Data Mining Engine(GDM) to reformat data visualisations to streamline data flows using Vue.js and Java EE.Helped reduce system latency by over 20% by optimizing the work-flow for the legacy application, helping business make faster and more effective decisions.Reduced inter-dependencies between different components of the system by around 15%, thereby resulting in fewer roadblocks even in case of outages.	
Application Of Data Analytics in Marketing Research <i>IBM SPSS</i>	May 2017 – Jul 2017
<ul style="list-style-type: none">Worked on a project to analyze and statistically review data and apply its principles to marketing research, by gathering data from around 1500 subjects and finding dependencies among the involved variables.Derived direct and indirect correlation and/or cause-effect relationships between the involved variables using multiple tests like t-test, ANOVA and Bi/Multi-variate regression analysis to determine the variables which positively/negatively impacted the subjects' response the most to a given scenario.	
Mathematical Model of a Flapping Wing <i>Matlab</i>	May 2016 – Jul 2016
<ul style="list-style-type: none">Worked on mathematical modelling of the flight parameters of a flapping wing of bird using numerical methods.Solved for the lift and drag of any custom geometry using MATLAB and extended the same concept to simulate the dynamics of a bird wing in-flight.Iteratively improved the accuracy of the results obtained by more than 30% by consistently reducing the finite element size to reflect the real world values of lift and drag of the bird wing.	