

Nick Sangha

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EDUCATION

The University of Texas at Dallas

Richardson, TX

Master of Science in Computer Science — GPA: 3.65

December 2023

- **Honors:** Academic Excellence Scholarship, Dean's List
- **Organizations:** Society of Hispanic Professional Engineers, Artificial Intelligence Society, FinTech Club

Bachelor of Science in Computer Science — GPA: 3.7

May 2022

EXPERIENCE

WellHive

September 2023 – Present

Software Engineer

Melbourne, FL

- Crafted robust APIs with Goa in **Go**, ensuring seamless connectivity with **10+ Angular** UI components
- Optimized existing **Playwright** test suites for performance and reduced test execution times by **35%**
- Ensured **HIPAA** compliance while integrating **FHIR** and **HL7** standards by enhancing patient data security
- Implemented complex business processes as **Temporal** workflows in **Go** reducing process failure rates by **40%**
- Streamlined cloud storage setup by provisioning AWS S3 buckets with **Pulumi**, cutting deployment time by **15%**

The University of Texas at Dallas

June 2023 – August 2023

Graduate Research Assistant

Richardson, TX

- Spearheaded team of medical experts and data scientists to create a sophisticated web dashboard using **React** and **Flask**, featuring seamless integration of a CNN model for medical image classification and visualization
- Obtained a **92%** accuracy on test data after fine-tuning Convolutional Neural Network (CNN) models in **Python**
- Curated a diverse dataset of over **10,000 images** from **5** distinct websites using **Beautiful Soup & Selenium**
- Reduced operational costs **30%**, optimizing resource utilization and cloud expenditure through **Microsoft Azure**

Bank of America

June 2022 – August 2022

Software Engineer Intern

Addison, TX

- Saved time for **15+ employees** by designing a Python script to migrate QA tests from Bitbucket to an **Oracle SQL database**, and utilized **PL/SQL** to determine whether the test suite failed deployment to alert engineers
- Increased deployment frequency **75%** by implementing a fully automated CI/CD pipeline in **Jenkins**
- Collaborated with **5** different teams in an **agile** environment to develop secure **Java** applications using **Spring**
- Migrated data from **30+** different tables to **Hadoop** by automating the conversion of SQL files to **HiveQL** files
- Effectively managed and tracked over **20** software development tasks, user stories, and bugs using **Jira**

Principal Financial Group

May 2021 – August 2021

Software Engineer Intern

Des Moines, IA

- Conducted security audits of **10+ applications**, replacing outdated dependencies to remediate vulnerabilities
- Boosted test coverage for code from **67%** to **90%** by adding unit test cases with **Mocha** and **Jest** in Node.js
- Won **2nd** place in the intern hackathon by building out the backend for a Smart Savings Planner in **Django**
- Reduced CI/CD costs **30%** by moving application workflows from **AWS CodePipeline** to **Github Actions**
- Achieved a **94%** accuracy in spam email filtering by developing a Naive Bayes classifier using **AWS SageMaker**

PROJECTS

Finance Dashboard with Regression Analysis | Node.js, MongoDB, React, Docker, Kubernetes, AWS EKS

- Created a real-time analytics web app for a specific company's data which featured multiple graphs with key metrics and market predictions for **20+** companies in the Fortune 500 using the **Yahoo Finance API**
- Increased application scalability **60%** by deploying **Docker** containers to an AWS **Kubernetes** cluster

E-commerce Embroidery App | Swift, Firebase, Python, Stripe API

- Displayed **30+** products for sale by building out the iOS app frontend for a small embroidery shop in **SwiftUI**
- Provided secure transaction capabilities to over **100** customers by streamlining payment processing through **Stripe**

SKILLS

Languages: Java, Python, JavaScript (React, Node.js, Angular), C++, SQL (Postgres, MySQL), HTML/CSS, Swift

Technologies: Linux, Django, Kubernetes, Hadoop, Docker, Jira, Maven, Kafka, Spark, Spring, Selenium, Postman

Concepts: Agile Methodologies, Object Oriented Design, Cloud Computing, REST/SOAP API Development, Big Data, Distributed Computing, Operating Systems, Data Structures, Model View Controller Design, Automation Frameworks