Chintan Acharya

chintan.acharya27@gmail.com | +1 (352) 740 6846 | chintan-acharya-b5757a192 | chintan-27 | theCka.tech

Education

- **University of Florida** GPA: 3.8 / 4.0 — Aug 2022 - May 2024
  MS in Computer and Information Science, ***ML Track*** — Gainesville, FL, United States
- **D. J. Sanghvi College of Engineering, University of Mumbai** CGPA: 9.25 / 10.0 — July 2018 - May 2022
  Bachelor of Engineering in Computer Engineering — Mumbai, India

Relevant Coursework: Advanced Data Structures, Distributed Operating systems, Computer Networks, Computer Architecture, Analysis of Algorithms, Machine Learning, NLP, Computer Vision, DBMS, Cryptography and CyberSecurity

Skills

- **Languages:** C++, Python, JavaScript, Java, Dart, TypeScript
- **Technologies:** React, Next.Js, Node.Js, Flask, Django, Flutter, Spring (MVC/Boot), REST/SOAP, DevOps, Linux
- **Tools:** Docker, BitBucket, Git, GitHub, Jira, Kubernetes, Postman, Jupyter Notebooks, VS Code, LLVMs, JUnit
- **Database:** Azure, AWS, PostgreSQL, OpenSearch, SQLite, S3, MongoDB, SQL, GraphQL, Apache Kafka

Experience

Research Assistant - ***University of Florida (OpenSmile Lab)*** — May 2024 - Present

- **Optimized GatorBrain codebase a brain MRI segmentation model** that can be fine-tuned akin to ChatGPT, achieving 30% faster inference speed by **streamlining code and implementing CUDA GPU utilization**.
- **Led backbone change** in GatorBrain of the encoder model, enhancing scalability and performance, accommodating **diverse MRI datasets up to 50 GB**.
- Implemented about **4+ efficient data cleaning strategies** for GatorBrain, ensuring accuracy and reliability in results.

Research Assistant - ***University of Florida (IC3 Lab)*** — Nov 2022 - Jul 2023

- **Engineered software to segment 4D Cardiovascular MRIs** with the help of Cardiologists for sarcoidosis evaluation.
- **Secured $15k in funding** by presenting preliminary research outcomes, highlighting a 34% potential enhancement in diagnostic precision at a **prestigious AI datathon conference**, emphasizing the transformative potential in cardiology.
- Used **Flask to deploy the Transformer UNet model**, employed CV algorithms to enhance model predictions by 17%.

Software Developer - ***SV Group of Companies*** — Apr 2022 - Aug 2022

- Orchestrated **custom Next.js components** with the help of a UX designer, accelerating website performance by 40%.
- Employed **Jasmine.js for 95% test coverage**, fostering seamless user experiences through stakeholder communication.
- **Engineered MongoDB & Node.js backend** for efficient and fast data handling also enhanced SEO ranking by 27%.

Software Developer - ***IotMaticHub*** — Apr 2021 - Dec 2021

- Led **as founding Software Engineer**, developed Flutter app for real-time inventory tracking, achieving 120% efficiency.
- **Architected ETL pipeline** using AWS DynamoDB and Node.js, managing 100+ requests/sec, **with IAM roles ensuring secure data flow and real-time visualization**, enriching user experience.
- Developed 10+ **REST APIs** using Express.js, **collaborated with industry leaders like ITC**, used Jira for Agile.

Software Developer Intern - ***Phemesoftware Ltd. (IBM)*** — Jun 2021 - Dec 2021

- Architected a **dynamic E-book reading website using Django**, boosting user engagement by 50% with sophisticated **integration of Azure APIs** for seamless content extraction and a responsive, visually appealing design.
- Leveraged **Azure Cloud APIs to improve content retrieval from PDFs**/images, boosting data accuracy by 30%.
- Deployed **K-means clustering algorithm within Django to offer personalized book recommendations**, increasing user retention by 25% and elevating the interactive experience on the E-book platform.

Projects

ScratchPad: ***Google Docs on LAN***

- **Employed mDNS for LAN communication**, enabling **real-time group note-taking akin to Google Docs**, boosting collaboration by 40%.
- Engineered **HTTP/TCP protocols for secure data transmission**, ensuring 95% reliability in lightweight notes app.
- Implemented **sophisticated data communication algorithms** in **Flutter and iOS native Swift**, achieving 36% efficiency in **real-time collaboration and synchronization**.

Sportimo: ***A tool for organizing sports tournaments with security and ease***

- **Crafted intuitive UI** akin to Devfolio/Devpost, driving 30% user satisfaction boost for organizing sports tournaments.
- Engineered backend with Node.js, Next.js frontend, **integrated authentication with CV/ML** for 14% more accuracy.

GatorTaxi: ***Ride-Share Service Simulation Using Data Structures and Algorithms***

- **Implemented Red-Black Trees for ride storage**, reducing retrieval time by 20%. **Utilized MinHeaps** for ride request prioritization, improving scheduling efficiency by 30%. Developed C++ functions, boosting system responsiveness.