

# ATHARVA SWAMI

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## EDUCATION

**University of Southern California** Los Angeles, California  
**Master of Science in Computer Science** August 2023-Present

- GPA: 4.0/4.0
- Relevant course work: Analysis of Algorithms, Database Systems, Web Technologies, Applied Natural Language Processing
- Collaborated on USC ISI's research project, 'Application of AI, ML, and NLP to Address US Runway Safety Issues,' analyzing aviation safety data from NASA's Aviation Safety Reporting Systems. [\[LINK\]](#)
- Engaged in an on-campus part-time role as a Full-Stack Developer at USC ISI's Visual Intelligence and Multimedia Analytics Laboratory, maintaining and optimizing web application, integrating dockerized features with Angular 7+, Python/Flask, MongoDB, HTML5/CSS3/TypeScript, and AWS

**Indian Institute of Technology Dharwad (IIT Dh)** Dharwad, Karnataka  
**Bachelor of Technology in Computer Science & Engineering** August 2019-April 2023

- CGPA: 9.26/10
- Conducted guided research in Smart Grid cyber-attack classification leveraging diverse Deep Neural Networks (ANN, CNN, Stacked Autoencoder) and GANs to enhance model performance with synthesized time-series data [\[LINK\]](#)

## EXPERIENCE

**Apple Inc.** Cupertino, California  
**Engineering Program Management Intern** May 2024-August 2024

- Collaborating with Engineering Program Management team to design data analytics tools for Apple Silicon/IP projects, focusing on heat map generation for Tapeout Roadmap and burndown charts and dashboard automation using Tableau
- Creating web apps for various projects like Calendar management for milestones, Jira automation, and Radar Automation using Python framework Flask, and a GUI using HTML, CSS, Javascript
- Integrated Apple Connect for security and Apple Directory search for finding Users or getting Management Levels and Functional Teams in some of the web apps projects
- Participated in the interns Capture the Flag hacking competition

**Dotpe** Gurugram, Haryana  
**Full-Stack Software Engineering Intern** January 2023-July 2023

- Collaborated in a 12-member team to build Rista's live production app, employing Sencha Framework, NodeJS, and MongoDB
- Integrated WhatsApp reservation messages for fine dining and resolved tax calculation bugs in sales reports
- Configured Exclusife, a new marketing provider, and implemented APIs for data exchange and loyalty points
- Optimized advance orders notification, introduced access controls for Tax Identification Numbers, and enhanced KOT printing
- Strengthened JavaScript skills, adapted to agile development using Jira

**TCS - TATA Consultancy Services** Pune, Maharashtra  
**Research Intern** May 2022-July 2022

- Created a Python-based NLP system, consolidating POS, NER, constituency graph, and dependency graph for advanced language processing and applied semantic parsing techniques to transform English sentences into various SQL query clauses
- Enhanced language understanding in database interactions by implementing sophisticated NLP processes, resulting in revamped efficiency and accuracy of SQL query generation for diverse language inputs

**Sanvira INC** San Jose, California  
**Software Intern** May 2021-October 2021

- Created Python scripts for molecular chemistry simulations with a focus on cancer degradation
- Developed a website operating React JS and FastAPI to simulate executed Python scripts, boosting accessibility and user interaction by synthesizing molecular simulations into a web-based platform

**Property360Degree** Hubli, Karnataka  
**Summer Intern** May 2021-July 2021

- Translated design mock-ups into functional web solutions using HTML, CSS, JavaScript, Angular, and Ionic Framework

- Implemented cross-platform mobile app development with Cordova, and employed Java-Spring Boot for backend development, contributing to overall website strategy and functionality

## SKILLS

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- Programming Languages: Python(pandas, numpy, matplotlib, seaborn), C/C++, Java, SQL, JavaScript, Swift
- Technical: SwiftUI, AWS, GCP, ReactJS, Angular, VueJS, NodeJS, Django, FastAPI, Flask, Power BI, Tableau, Jira
- Languages: English, Hindi, Marathi, French (Basic) & Japanese (Basic)

## ACADEMIC PROJECTS

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### Stock Portfolio iOS App

- Crafted a native SwiftUI app facilitating stock symbol searches, virtual trading, and portfolio management, while adhering to MVVM architecture principles [\[LINK\]](#)
- Utilized Finnhub APIs via Node.js for real-time data retrieval, ensuring seamless functionality across screens and consistency on the iPhone 15 Pro (17.2) simulator

### Stock Portfolio Website

- Crafted a stock search webpage using Finnhub API, HTML5, Bootstrap, Angular, and Node.js, enhancing UX with responsive design [\[LINK\]](#)
- Hosted NodeJS/Express on Google Cloud Platform, integrating Finnhub, Polygon.io, and Highcharts APIs, while managing MongoDB Atlas

### Personal Finance Dashboard

- Devised a Power BI-based data analytics project showcasing a personal finance dashboard, aiding users in tracking expenses, income, and financial goals [\[LINK\]](#)

### Crypto Hunter

- Built a responsive Cryptocurrency Tracker App with React JS, Material UI, and Chart JS, integrated Context API for state management and Coin Gecko API for real-time data, facilitating detailed cryptocurrency info, market cap-based pricing [\[LINK\]](#)

## CO-CURRICULAR ACTIVITIES

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- Led a team in organizing and hosting the CTF hacking competition during IIT Dh's annual tech fest, overseeing question design in areas including Cryptography, Web, and Binary (Dec 2022 - Feb 2023)
- Served as a Public Relations Coordinator of the Career Development Cell at IIT Dharwad (Aug 2021 - Apr 2022)
- Engaged as a Student Mentor (Aug 2020 - Apr 2022)