AKHILESH NEVATIA

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Portfolio: https://akhilnev.github.io/#/ | **LinkedIn**: https://www.linkedin.com/in/akhilnev/

Education

Iowa State University	Expected Graduation: May 2025 (Senior)

Bachelor's in Software Engineering, Minor in Mathematics, University Honors Program

Dean's List: Spring 2023, Fall and Spring 2022, Fall 2021 | Top 2% of Class at College | GPA: 3.95 / 4.00

• **Relevant Coursework:** OOP in Java, ML, AI, Programming in C/C++, Data Structures, Algorithms, Relational Databases, Android App Development, Probability and Statistics, Graph Theory, Computer Architecture

Skills

Languages: Java, Python, TypeScript / Javascript, C++, C, MATLAB, Verilog

Databases: MySQL, Neo4J Aura Database (GraphQL), MongoDB (NoSQL), AWS (EC2)

Tools and Technologies: Git, GitHub, GitLab, Subversion, Spring, SpringBoot, Postman, Docker, Html5, Css3, Node.js, Express, TensorFlow, Keras, Pyspark, x86, ARM, FPGA, Jenkins (CI/CD), Jira

Professional Experience

Palantir Technologies	New York, NY
Forward Deployed Software Engineering Intern (FDSE)	Jan 2024 – Present

• Built Data Analysis and Operational Tools deployed across 300+ Client Locations with Typescript and Foundry
• Worked on Big Data Pipelining and Cleaning from Client Servers to our internal Azure stack with Pyspark
• Built and Deployed a Solver Model to assist clients with Optimal Inventory Rebalancing, saving clients ~$200k by minimizing unplanned transfers of inventory
• Led client meetings virtually and onsite to scope requirements, set-up timelines, handover and build new workflows

Math and Computer Science Department - Iowa State University	Ames, IA
Research Assistant	August 2022 – Jan 2024

• Developing and rigorously testing a Stego-detection software used to detect hidden messages in Smartphone images
• Tested 5 million+ images using CSV and Matplotlib libraries in 15+ Python Scripts to analyze output data
• In process of publishing analysis results: First Evaluation of Stegos taken from the StegoApp Database

Collins Aerospace - Raytheon Technologies	Cedar Rapids, IA
Software Engineering Intern	May 2023 - August 2023

• Submitted a report to rectify a major Software issue where 25+ aircrafts incorrectly alarmed a "no-runway" scenario
• Proficiently developed and executed test cases using Python, VCL, Lua scripts, and debugged multiple issues using root-cause analysis, resulting in a 10-15% improvement in EEJ Aircraft system stability
• Collaborated with Senior Engineers to convert high-level and low-level requirements into well-organized Ada code
• Led the intern weekly SCRUM meeting, organized and attended Code Reviews held by teammates

Academic Success Center - Iowa State University	Ames, IA
Mathematics and Computer Science Tutor	January 2022 - December 2022

• Tutored College Students in Multivariable Calculus (MATH 265) and Object-Oriented Programming (COMS 227)
• Led multiple batches in groups of 5 and helped increase grade average by 20%, according to yearly reports

Personal Projects (**GitHub:** https://github.com/akhilnev)

StockNNetPredict, *Programming: Python with TensorFlow, Keras, NumPy, Panda, etc   July 2023 – Current*

• Developing a predictive model for stock price forecasting using LSTM-based Recurrent Neural Networks
• Achieved a low validation loss of ~0.0005 and matching training loss, showcasing the model's robust generalization
• Processed closing stock values and dates using Panda and NumPy, built the model using Keras from Tensorflow
• Expected and Predicted Values, Training and validation losses are plotted using Matplotlib to evaluate final results

SwipeHIRE, *Programming: Git, Gitlab, Java, Spring, MySQL, Postman (Android App) January 2023 – May 2023*

• Led Backend Development of SwipeHire which aims to connect students and hiring managers through profile swiping (like Tinder), reduced profile review time by over 30%
• Introduced an in-built chatbox, swiping feature using WebSockets, and used Rest APIs to enhance user interaction
• Reduced Development Code Deployment time by ~10% using Jenkins CI/CD Pipelines on Gitlab
• Employed functional and system testing with a test coverage of 96.4% and a code coverage of ~90%

Leadership, Accomplishments and Honors

• Mental Math (ABACUS) – India National Gold Medalist, given to Top 5 in 10000+ participating students
• Top 3 position representing Iowa State in ICPC Regionals 2022
• Ranked in the top 1% of 1.5 million students giving IIT-JEE
• Cleared Pre-Regional Mathematics Olympiad and Qualified Regional Mathematics Olympiad
• Founding member of the Autonomous Robotics Club