Sneha Chaliki

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EDUCATION

University of Illinois Urbana Champaign, *Grainger College of Engineering* GPA: 3.9 / 4.0 May 2026

BS in Computer Science, Minor in Macroeconomics, Minor in Psychology

Courses: System Programming | Data Structures & Algorithms | Computer Architecture | Database Systems | Algorithms & Models of Computation | Software Engineering | Text Information Systems | Web Programming | Discrete Structures | Data Visualization | Calculus III | Linear Algebra | Numerical Methods I | Probability & Statistics for CS

SKILLS

Languages	Python, C, C++, Java, Javascript, HTML/CSS, Git, Bash, MIPS, Verilog, Swift, Visual Basic (VBA)
Software	mySQL, Docker, PyCharm, IntelliJ, Android Studio, React, XCode, OnShape, Figma, Strapi, OfficeScripts, SmartSheet, VSCode, PowerAutomate, SharePoint, Qualtrics, Powerpoint, Excel, Unity, Tableau
General	Consulting, Macroeconomics, Psychology, Research, Tutoring, Teamwork, Survey Development, Oil Painting

EXPERIENCE

Svarupa, *Software Engineering Intern* | Remote, Ca May 2024 - Present

- Researching and testing AI text generation models using HuggingFace and Python environments
- Creating a python script to automatically parse PDF documents and extract valuable insights using OpenAI's API
- Building a model to succinctly extract important lessons from documents in different languages and create articles

Abbott Laboratories, *Engineering Intern* | Champaign, IL May 2023 - Present

- Enhanced financial database infrastructure, efficiency and retrieval times using Excel VBA and OfficeScripts
- Automated data cleansing processes via PowerAutomate, increasing data integrity and reducing manual intervention
- Revitalized company-wide project lists, enhancing project oversight and resource allocation for project managers

Engineering Open House, *Junior Director of Technology* | Champaign, IL May 2023 - April 2024

- Optimized EOH website with new volunteer and director portals, streamlining communication for 50,000+ attendees
- Designed mobile visitor interface for EOH, enhancing navigation across 300+ exhibits and 25 special events
- Used content management systems and cloud based applications to manage visitors and organize event information

OTCR Consulting, *Project Manager* | Champaign, IL Feb. 2023 - Present

- Distinguished as one of 25 candidates, handpicked from an extensive pool of over 400 applicants
- Boosted user retention and recruited 80+ new users at tech startup via targeted entertainment market research
- Consulted for global professional services firm; optimized employee onboarding; automated with PowerAutomate
- Conducted market and competitor analysis for a mid-size display manufacturer to identify KPIs and industry trends

Human Computer Interaction Department, *Research Assistant* | Champaign, IL Feb. 2023 - Present

- Conducted HCI research relating to student perceptions of the acceptability of generative AI use in the classroom
- Created and launched a Qualtrics survey of full factorial scenarios to analyze student perceptions on campus
- Developed data visualization tools using Python for survey analysis, including regression and multiple libraries

PROJECTS

Algorithmic Stock Price Trend Forecasting | *Python, Scikit-learn* Aug. 2024

- Built an interactive web application in Python using Streamlit to forecast stock trends based on historical data
- Utilized libraries like Scikit-learn to apply machine learning techniques for predicting stock price movements
- Fetched real-time stock data via Yahoo Finance API to power predictive models and dispaly up-to-date trends

Interactive Climate Change Data Visualization | *HTML/CSS, D3* Jun. 2024

- Developed an interactive visualization using real-world datasets to illustrate global temperature and humidity trends
- Leveraged data processing, HTML/CSS, and D3 to create a visually compelling climate change visualization

Neural Network Optimization Using Stochastic Methods | *Python, PyTorch* Jan. 2024

- Analyzed impact of hyperparameters such as learning rate and batch size on model accuracy using neural networks
- Achieved a 96.5% accuracy on the MNIST dataset with ADAM optimization
- Implemented SGD, GD, and ADAM optimization algorithms to evaluate computational costs and convergence rates

Personal Website | *Full Stack Web Development, Progressive Web App (React)* Nov. 2023

- Building a custom personal website from scratch to showcase personal interests and accomplishments, using React, HTML/CSS/Javascript, and multiple frameworks for ease of implementation