

IRA CHANDRA

Designer & Developer

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EDUCATION

B.A. in Computer Science and Studio Art

August 2020 – May 2023

University of North Carolina at Chapel Hill

Key Coursework: Digital Logic and Computer Design, Files and Databases, Models of Languages and Computation, Applications of Natural Language Processing, Object-Oriented Programming, Objects & Design, Data Structures & Algorithms

SKILLS AND LANGUAGES

Languages: Java, Python, JavaScript, TypeScript, C, C++

Skills: SQL, Business Analysis, Linux, Unix, Kubernetes, Angular/Node CLI, CSS, HTML, Material-UI, Node.js, React, User Testing, Figma, Adobe XD, Wireframing, Prototyping, Adobe Illustrator, Photoshop, Procreate

EXPERIENCE

Agile Associate

Freddie Mac, McLean, VA

June 2023 - Present

- Developed Figma mock-ups for a Microsoft Azure Governance feature. Conducted competitive analysis, user research, and wrote specifications for third-party integrations. (Feature is under NDA.)
- Designed and presented updates in weekly meetings with product owners. Addressed blockers and incorporated feedback to enhance usability and compliance.
- Led Angular UI component integration, modernizing the UI and ensuring cohesive implementation with the latest Angular versions.
- Implemented a reusable logging system to optimize debugging and improve readability.
- Streamlined testing for the Lasux to Angular/LegalX transition, minimizing disruption and enhancing system reliability.
- Coordinated with cross-functional teams for timely deployment and adherence to project timelines.
- Conducted regression testing to resolve bugs and improve system stability.

Cloud Software Engineering Intern

Tricentis, Buckhead, GA

June 2022 – September 2022

- Provided insights into pain points for Tricentis' bulk editing product, identifying user challenges and areas for improvement.
- Developed Figma prototypes to improve navigation and manage large volumes of test cases.
- Created and integrated Material-UI components into the Tricentis library, accelerating design and development, and enhancing UI consistency.
- Built a React-based prototype with a mock API, reducing development effort and showcasing modularity.
- Developed cloud automation solutions using CloudFormation, increasing production efficiency.
- Designed AWS solutions, resulting in over \$300,000 in annual savings.
- Resolved performance issues, supporting automation for over 1,000,000 daily requests across cloud environments.

PROJECTS

Machine Learning NLP Model Training: Generating Abstracts for Academic Papers

Utilizing Transformer Models for Automated Abstract Generation

Description: Led the development of a software system for automated abstract generation using transformer models. Managed data extraction, cleaning, and implemented the Longformer Encoder-Decoder model. Optimized model training to enhance abstract quality metrics.

Technologies: Python (NumPy, pandas, scikit-learn), Longformer Encoder-Decoder model, PDFToText, wordninja, UNC LongLeaf Cluster, Gradio, BLEU and Rouge metrics.

Nike Sentiment Analysis

Twitter Analysis Using Clustering and Sentiment Analysis

Description: Applied topic tagging to 4.75M+ tweets, exploring clusters and their impact on Nike's brand. Conducted sentiment analysis to identify correlations between Nike's involvement with social issues and customer sentiment.

Technologies: Python, Scikit-learn, Text Blob, Vader, Altair

Peer2Peer Lending

Investment Strategy Driven by Big Data Analysis & Machine Learning

Description: Analyzed loan application features to maximize investor profitability. Implemented a Random Forest model, achieving an 84% higher chance of annual returns compared to the U.S. Treasury bill baseline.

Technologies: Python, Scikit-learn

48in48: Volunteer UX Designer

Atlanta, GA, October 2023

Description: Led UX design for two non-profit websites, conducting stakeholder interviews and synthesizing research and user testing results.