SOUMENG (ALEX) CHEA

LOOKING FOR A CO-OP/INTERNSHIP | AVAILABLE: MAY – DECEMBER 2021

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EDUCATION

Northeastern University – *Boston, MA*
Candidate for a Master of Science in Computer Science, Overall GPA: 3.1/4.0   *Expected May 2022*
Coursework: Object-Oriented Design, Algorithms, Human-Computer Interaction, Database Management System, Special Topic in Data Science, Database Management and Processing

University of Massachusetts – *Lowell, MA*
Bachelor of Arts in Political Science, Overall GPA: 3.3/4.0, Cum Laude Honors   *February 2019*

TECHNICAL SKILLS

Languages: Proficient: Python, Java, C/C++, R, SQL **Familiar:** JavaScript, HTML/CSS, C#, Assembly

Software/Framework: IntelliJ, VSCode, PyCharm, STATA, SPSS, SQLite, MySQL, R Studio, XML, JSON, MongoDB, Azure

Design/Mgmt Skills: Trello, Microsoft Project, Rapid Prototyping, Figma, Axure RP, Balsamiq, Adobe XD, Wireframes

PROJECTS

Facebook Dating: A UX Research Case Study   *May 2020 – Present*
Personal Project
- Testing and identifying current design problems through redesigning the conceptual design and mapping of the feature.
- Wireframing the update design controls and the system display of the user dating profile and their persona.
- Operated usability testing (i.e. cognitive walkthrough, demo, and questionnaires) to measure user expectations and feedbacks.

PubMed Mining Database   *November 2020 – December 2020*
Northeastern University
- Cooperated in a team of 2 to create a normalized relational OLTP database and parsed PubMed catalog XML document to populate data into the appropriated tables.
- Constructed a star schema tables with fact tables and implemented a denormalized schema that suitable for OLAP database.
- Performed a data mining technique and utilized SQL queries to explore the data patterns from the new data warehouse.

COVID-19 Contact Tracer Application (Mobile)   *October 2020 – December 2020*
Northeastern University
- Created a prototype using Axure where students can take daily wellness checks, schedule COVID-19 tests, and receive notifications for positive cases.
- Designed, analyzed and evaluated a prototype for a human computer interaction system to track COVID-19 at Northeastern University by applying design and evaluation methods throughout the project.

Easy Animation   *March 2020 – May 2020*
Northeastern University
- Collaborated with a partner to design a Java application that creates simple animation based on different user inputs.
- Built a GUI with Java Swing Library for rendering animations according to users input data and supports.

EXPERIENCES

Center of Asian American Studies – *Lowell, MA*   *April 2018 – May 2019*
Research Assistant
- Contributed to analyze research data pool by collecting and organizing information from random select group study sources.
- Supported principal investigators by screened 200 participants enrolled in research study, administering relevant tests.
- Executed qualitative and quantitative analysis on a wide range of data results and coded data categories into SPSS database.

Southeast Asian Digital Archives – *Lowell, MA*   *May – August 2018*
Student Assistant
- Constructed and drafted policies to protect archival data, records and documentation.
- Digitized records and ingested all finished metadata onto Omeka site for publication.