Sailunsi Chen

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Education

University of Maryland College Park, MD
B.S. Candidate, Mathematics and Computer Science Expected graduation: May 2016
Cumulative GPA: 3.75/4.00

Current coursework: CMSC412 - Operating Systems
CMSC460 - Computational Methods
STAT600 - Probability Theory I

Previous coursework: Cryptology, Data Science I, Data Structures, Database Design, Computer and Network Security, Algorithms, Organization of Programming Languages, Discrete Structures, Introduction to Computer Systems, Object-Oriented Programming I/II, Introduction to Probability Theory, Introduction to Statistics, Introduction to Statistical Computing with SAS, Sampling Theory

Skills

Computer languages: Java (7+ years), Python, C, HTML, CSS, SQL, LaTeX, R, SAS; limited experience with Ruby, JavaScript, C#, Bash, OCaml, MATLAB

Communication languages: English (native), Mandarin Chinese (native), Japanese (limited), French (limited)

Development environments: Windows, UNIX, Linux

Experience with relational databases

Solid understanding of statistical analysis and predictive modeling

Experience

Epic Systems Summer 2015
Software Development-Intern

- Developed a searching functionality for MyChart, a patient-facing health record application, on Android
- Wrote a business logic for searching in a C# library, making use of Damerau-Levenshtein edit distance to do fuzzy string matching on user queries
- Wrote web services for Android to communicate with the C# layer that sits on top of the database of health records
- Worked with Android fragments and adhered to Google's material design principles to create a smooth and intuitive user interface

Epic Systems Summer 2014
Software Development-Intern

- Wrote SQL queries and procedures in Microsoft SQL Server to organize and extract over 20GB of user action data
- Used SAP HANA in-memory database and SAP business analytics tools to model user action data to find inefficiencies in user workflow
- Used R to analyze and model user action data; modeling techniques include Bayesian model averaging, neural networks, and cluster analysis
- Used R to develop a web application to facilitate easier modeling for Epic's optimization team