

Sailunsi Chen

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Education

University of Maryland

B.S. Candidate, Mathematics and Computer Science

Cumulative GPA: 3.83/4.00

Current coursework: CMSC420 – Data Structures

CMSC4980 – Data Science I

STAT430 – Introduction to Statistical Computing with SAS

Previous coursework: Database Design, Computer and Network Security, Algorithms,
Organization of Programming Languages, Introduction to Computer Systems,
Object-Oriented Programming I/II, Discrete Structures,
Introduction to Probability Theory, Introduction to Statistics

College Park, MD

Expected graduation: May 2016

Skills

Computer languages: Java (6+ years), C, SQL, R, SAS, HTML, CSS, PHP, LaTeX, Python

Communication languages: English (native), Chinese (native), Japanese (elementary), French (elementary)

Development environments: Windows, UNIX, Linux

Experience with relational databases (MS SQL Server, MySQL) and version control (Subversion, Git)

Solid understanding of statistical analysis and predictive modeling

Experience

Epic Systems

Summer 2014

Software Developer-Intern

- Wrote queries and procedures in MS SQL Server to organize and extract over 20GB of user action data
- Leveraged 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, regression, and clustering
- Used R to develop a web application to facilitate easier modeling for Epic's optimization team

Software Design Class

Spring 2012

Game development

- Worked in a team of three to produce a fully functional game involving 3-dimensional manipulation of light beams with rotating mirrors and beam splitters
- 3D rendering in Java using JOGL library
- 2D game components in Java using Graphics2D
- Digital artwork using GIMP 2.0 and Paint Tool SAI

Center for Prostate Disease Research

Summer 2011, 2013

Laboratory Assistant

- Worked on developing a non-invasive urine-based prostate cancer detection assay, as well as the subcellular localization of the androgen-responsive protein PMEPA1
- Cell culture of established prostate cancer cell lines (LNCaP/VCaP cells)
- Fluorescent and immunohistochemistry staining of prostate cancer cells
- Fluorescence microscopy of stained prostate cancer cells
- Western blotting of total and fractional protein of prostate cancer cells