

Henry Rheault

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EDUCATION

METROPOLITAN STATE UNIVERSITY | BS COMPUTER SCIENCE, APPLIED MATHEMATICS MINOR St. Paul, MN | January 2019 - December 2019
GPA: 3.35

NORMANDALE COMMUNITY COLLEGE | AS COMPUTER SCIENCE Minneapolis, MN | August 2017 - December 2018

WORK EXPERIENCE

SAM'S CLUB WEST | MAINTENANCE ASSOCIATE Eagan, Minnesota | May 2017 – October 2018

- Custodial and miscellaneous retail duties

PROFESSIONAL SKILLS

PROGRAMMING LANGUAGES

MATHEMATICS AND COMPUTER SCIENCE TOPICS

SOFTWARE FAMILIARITY

Java, Python, C, Scheme, Prolog, SQL, HTML/CSS

Linear Algebra,, Discrete Math,, Calculus III,, Stats

Microsoft Office, Notepad++, Eclipse, MySQL

PROJECTS

UBER CHESS- CROSS PLATFORM CHESS AI (CAPSTONE) | JAVA, LINEAR ALGEBRA LIBRARY

A multithreaded Java Chess app allowing for Player VS AI and Player VS Player matches. AI uses custom MiniMax and Procedural Move Generation algorithms.

UDP STOP-AND-WAIT FILE TRANSFER | JAVA, PORTS API

A Java command line app to send a binary file between different machines on a Local Area Network via UDP protocols. Modified Adler-16 checksum made but dropped from requirements.

JAVA MYSQL GUI CONNECTOR | JAVAFX, MYSQL

A MySQL database connector programmed in Java to allow queries to be made in user-friendly manner.

REMEYENDER | JAVA

Java app to be run at start up to encourage users to periodically look away from their screen to prevent blurred vision, via Windows tray notifications.

BLOOMINGTON CITY WEBSITE USER TEST- SEPTEMBER 2018 | CENTOS LINUX, GOOGLE CHROME

Recognized for testing the Bloomington city website on a Linux installation to ensure cross-platform functionality.

MATHEMATICS COURSE HISTORY

LINEAR ALGEBRA

Eigenvalues, Inversion and Transposition, Linear Combinations, Graphics Processing and AI

DISCRETE MATHEMATICS

Propositions and Truth Tables, Theorems, Proofs, Graph Theory, Time Complexity

CALCULUS I THROUGH III

Single and Multivariable Derivatives & Integrals, Lagrange Multipliers, Change of Variables

HIGHER STATISTICS

Mean and Median, Hypothesis Testing, Regression Fitting, Probability Distribution

LINEAR REGRESSION IN R (IN PROGRESS)

Hypothesis Testing and Standard Deviation, Least Squares Approach, Fit Smoothing, Residual Analysis

