Samuel A. Chebruch

48 Valentine Rd, Warminster, PA 18974
(267) 615-8022 | sac320@lehigh.edu

Education

Lehigh University, Bethlehem, PA (Fall 2016 - Present)   *Expected Graduation: December 2019*
College of Engineering and College of Business   *Cumulative GPA: 3.97*

- Major: Computer Science and Business (CSB)
- Minor: Data Science

Relevant coursework: Algorithms, Advanced Statistics, Software Engineering, Database Design and SQL Querying, Predictive Modeling with R, Data Structures

Work Experience

Lehigh University   *Aug 2018 - Present*
Data Science Grader

- Answer class forum questions to clarify relevant material.
- Develop and grade homework assignments and quizzes to evaluate student performance.

Lehigh University   *Sept 2017 - Present*
Peer Tutor

- Orchestrate group tutoring sessions involving linear algebra, differential equations, and their applications.
    - Clarify student questions and introduce new concepts in an intuitive style.
    - Design a unique curriculum for each semester, supplementing student lecture notes.

Relevant Projects

Social Media Application Design   *Aug 2018 – Dec 2018*

- Implemented a social media website and android application which included functionalities such as login authentication, posting messages, and commenting.
    - Languages involved: Java, HTML, CSS, JavaScript
    - Platforms and APIs used: Maven, Gradle, NPM, Oauth, Bootstrap, Git

Enterprise Database and User Interface Design   *Jan 2018 – May 2018*

- Designed a Database for a hypothetical enterprise, its employees, and its customers using the Entity Relationship (ER) Model and SQL Developer.
- Implemented a user interface with JDBC to allow customers, clerks, and managers to perform relevant activities, updating SQL relations as necessary.

Predictive Model Implementation For Credit Analysis   *Nov 2017 – Dec 2017*

- Used R for implementation and evaluation of predictive models to determine optimal bank loan candidates.
    - Models Used: Logistic Regression, Naïve Bayes, K-Nearest Neighbor, Decision Trees
    - Model Evaluation Techniques: Cross Validation, Expected Profit Analysis, ROC Curves

Leadership & Volunteer Experience

Mentor for Lehigh Computer Science & Business Students   *Jun 2018 - Present*

- Recommend decisions regarding course selection to incoming Lehigh freshmen, easing their transition into a new university setting.
- Arrange meetings with freshmen students monthly to answer questions and check their statuses, ensuring that they proceed through their education as expected.

Member of IMG Executive Board (Investment Management Group)   *Apr 2018 - Present*

- Oversee active management of a $100,000 long-only Russel 1000 portfolio.
- Deliver group presentations, market updates, and stock pitches to fellow members and the Executive Board.

Awards and Distinctions

- Lehigh University Dean's List Recipient   *Fall 2016 – Fall 2018*
- William Tennent High School Top of Class   *Jun 2016*

Skills

- **Computer Skills**: Predictive Modeling Algorithms, SQL, Java, HTML, CSS, C, C++, JavaScript, Git, Linux Terminal
- **Finance Skills:** Financial Statement Analysis (Balance Sheet, Income and Cash Flow Statements) and Valuation Techniques