Patrick Lee F. Walker

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Education:

University of San Diego   **San Diego, CA**

B.S. Computer Science, Shiley-Marcos School of Engineering   Major GPA: 4.0

B.A. Mathematics, Minor in Theo. & Religious Studies, College of Arts and Sciences   Overall GPA: 3.67

- Dean's List (Fall 2016, 2017, 2018, 2019; Spring 2019)
- First Honors (Fall 2016, 2017, 2019, 2020; Spring 2019, 2020) & Second Honors (Fall 2018)

Relevant Coursework:

- **Computer Science**: Senior Project I & II, Algorithms, Data Structures and Algorithms, Database Management Systems Design, Object-Oriented Design, Computer Systems, Operating Systems, Web Development, Automata Computability and Formal Languages, Principles of Digital Hardware, User-Centered Design and Prototyping, Computer Graphics, and Bioinformatics
- **Mathematics**: Applied Probability and Statistics, Probability, Mathematical Statistics, Linear Algebra, Calculus I-III, Topology, Real Analysis I, Theory of Numbers, Math Problem Solving Seminar, and History of Mathematics

Skills:

- Proficient in Java, Python, SQL (MySQL), Git, and all Microsoft Office programs
- Experience with Tableau, C, HTML5, CSS3, JavaScript, Docker and multiple operating systems
- Languages: English (native), Spanish (conversational speaker)

Professional Experience:

Computer Lab Assistant, University of San Diego; San Diego, CA (Remote)   *August 2020 - November 2020*

- Assisted in educating computer science students during their weekly computer lab sessions
  - Helped reduce the instructor's workload during lab sessions by 50% - assisted students when notified
  - Increased students' overall understanding of computer science and programming in Python

Software Engineer Intern, Echo Markets; San Diego, CA (Remote)   *June 2020 - August 2020*

- Applied market and software engineering experience to build a commission-free, social, stock trading web-application. Learn and implement languages and technologies like Python, Django, and PostgreSQL and front-end technologies like Bootstrap, CSS3, HTML5, and JavaScript.
  - Implemented logistical functions and UI/UX features for different areas of the application
  - Contributed to daily stand-ups, (sprint) planning and platform design meetings
  - Maintained and deployed on Gitlab and Heroku using an agile software development methodology

Engineering Projects:

Project Matching System, Senior Design Capstone; USD   *September 2019 - June 2020*

- Design and implement a system that matches senior engineering students to their preferred projects, increasing team cohesion by ~35% and student preference placement by ~30%
- Provide leadership with an accurate, timeless and efficient system, reducing 10+ hours of work to <10 minutes
- Implemented an Agile approach in our software development process - resulted in iterative versions of our product
- Manage a full-time academic schedule in addition to all work requirements and responsibilities

Leadership Experience:

Competitor, Mathematical/Interdisciplinary Contest in Modeling; USD   *March 2020*

  - Hosted by Consortium for Mathematics and Its Applications

Competitor (Regionals), International Collegiate Programming Competition   *November 2019*

Finance Chair, Association for Computing Machinery; USD   *September 2019 - November 2020*

- Tracked finances and accounted expenses as club controller, in addition to executive board responsibilities
- Created models and data visualizations of club finances for presentations to the computer science faculty advisor

Member, Entrepreneurship Club; USD   *September 2017 - May 2020*

Professional Affiliations:

- Kappa Gamma Pi, National Cahtolic Graduate Honor Society   *March 2019 - Present*
- Association for Computing Machinery Professional Society   *August 2018 - Present*
- National Society of Collegiate Scholars   *January 2017 - Present*