Matthew Weigel

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OBJECTIVE

Hardworking Computer Science graduate with a minor in Mathematics. Seeking an entry-level Software Developer position. Strong foundation in algorithms, data structures, and software design, combined with advanced mathematical skills in calculus, linear algebra, and probability. Hands-on experience in AI training data evaluation, with a track record of creative problem-solving and teamwork on several challenging software projects.

EDUCATION

Bachelor of Science in Computer Science with Math Minor – Cum laude
Charleston Southern University – Charleston, SC
December 2023 | GPA: 3.65

RELEVANT COURSEWORK & SKILLS INTEGRATION

- **Data Structure Analysis (CSCI 315):** Applied data structures and abstract data types, including lists and trees, while analyzing algorithm efficiency with Big-O notation.
- **Survey of Scripting Languages (CSCI 301):** Compared scripting languages for Unix and web applications, focusing on key features of Python, Ruby, Perl, and JavaScript, while exploring differences between scripting and programming languages.
- **Object-Oriented Programming (CSCI 325):** Developed applications using Java, emphasizing control structures, classes, inheritance, recursion, and GUI components.
- **Applied Networking (CSCI 332):** Studied networking fundamentals via the OSI model, covering hardware and protocols like HTTP and TCP, while gaining experience in network application programming with XHTML, Perl, and Python.
- **Algorithms (CSCI 415):** Explored algorithm efficiency and complexity, focusing on optimal solution design, advanced algorithms, and limits of computation.
- **Database Management (CSCI 419):** Analyzed organizational data needs and developed information systems, focusing on conceptual data design, operational system implementation, and data administration through projects with mock organizations.
- **Systems Analysis and Software Design (CSCI 495):** Investigated information systems integration in businesses, utilizing case studies and simulations, culminating in a team-based project with a mock organization.
- **Senior Project (CSCI 497-499):** Completed a capstone series involving the design, construction, and implementation of a significant project, culminating in a comprehensive defense.
- **Calculus I, II, III (MATH 221, 222, 321):** Covered limits, continuity, and differential calculus; techniques of integration; three-dimensional analytic geometry; and key theorems including Green's and Stokes'.

- **Probability & Statistics (MATH 213):** Studied data representation, probability, random variables, estimation, and hypothesis testing, along with correlation and regression analysis.
- **Linear Algebra (MATH 326):** Focused on the theory and application of linear algebra, including matrices, systems of equations, and eigenvectors.
- **Discrete Mathematics (MATH 330):** Examined propositional logic, set theory, number theory, and automata, along with proving techniques and mathematical induction.

TECHNICAL SKILLS

- **Languages:** C, C#, C++, Java, JavaScript, Python, Perl, PHP, SQL, HTML, CSS
- **Mathematical Skills:** Calculus I, II, III, Linear Algebra, Probability & Statistics, Discrete Math
- **Development Skills:** Front-end & back-end development, Web development, UI design
- **Tools:** GitHub, Qt Creator, Ubuntu, Linux, Windows
- **Methodologies:** SDLC, Testing & Debugging, Software Design, System & Program Design
- **Soft Skills:** Effective communication, Collaboration, Project management, Problem-solving

WORK EXPERIENCE

Software Engineer for Training AI Data

Outlier – Remote | June 2024 – Present

- Evaluate AI-generated responses, providing detailed feedback and summaries to improve model accuracy.
- Deliver clear, human-readable justifications for comparative analysis of code samples to enhance model training and performance.

Freelance Home Maintenance Specialist

Private – Summerville, SC | June 2019 – Present

- Manage repair, furniture installation, and lighting fixture projects, enhancing residential spaces and organizational systems.
- Utilize problem-solving, troubleshooting, time management, and client relationships skills, work with tools and technology.

Front Service Clerk/Cashier

Publix Super Markets – Summerville, SC | August 2017 – August 2021

- Delivered top-tier customer service, resolved inquiries, and trained new employees on operational procedures and customer service skills.

LINKS

LinkedIn – http://linkedin.com/in/matthew-weigel-a9370a2b0

Handshake – https://csuniv.joinhandshake.com/stu/users/25817525

Portfolio – https://mtweigel.github.io

GitHub – https://github.com/mtweigel