

Michael S. Wendell

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SUMMARY

I am a recent graduate with a Master's degree in Computer Science looking for a software engineering role. I have developed a strong understanding of programming with Python, Java, and SQL. My expertise includes data visualization, statistical modeling, data analytics, application development, and machine learning, which I have applied in various projects.

EDUCATION

M.S. in Computer Science

Boise State University • Boise, ID • 2022 – 2024 • 3.81

• Coursework: Databases, Design & Analysis of Algorithms, Recommender Systems, Machine Learning, Artificial Intelligence, Human Computer Interaction, Data Science, and Data Structures

B.S. in Mechanical Engineering

University of Idaho • Moscow, ID • 2014 – 2018 • 3.43

• Coursework: Thermal Energy Systems Design, Mechanics of Materials, Gas Dynamics, Heat Transfer, Fluid Mechanics, Dynamic Modelling, Machine Component Design, and Computer Aided Design

SKILLS

Programming Languages: Java, Python, SQL, C, C++, R, HTML/CSS, JavaScript, Swift, Rust, and MatLab

Analytics and Tools: Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, Jupyter, PyTorch, TensorFlow, LensKit, JSON, Angular, Node.js, Git, and AWS

PROJECTS

Search Engine Tutorial(SET) – Web Game

- Collaborated in developing an educational web game for teaching children optimal search query construction.
- Implemented real-time search result retrieval with Angular and calculated scores based on key-word identification in results.
- Logged player queries in local JSON files to review user queries and improvements throughout the game.
- Utilized: HTML, CSS, TypeScript, JavaScript, React, and Angular

Kid Tech Balance – iOS Application

- Personally developed a parental control iOS application for moderating children's technology use and instilling accountability.
- Directed a Co-design team of children to identify preferred features to be included in application design.
- Incorporated Apple's FamilyControls API to enable locking features and application tracking for children.
- Utilized: Swift, Xcode, JSON, local data storage, and iOS Development

Steam Game Recommender – Python Project

- Implemented a Python tool to recommend games to Steam users based on their liked and disliked games.
- Used LensKit tool to build algorithmic models for training and testing the recommender data on user reviews.
- Evaluated user recommendation models using normalized discounted cumulative gain, hit rate, and mean reciprocal rank.
- Utilized: Python, PyTorch, TensorFlow, and LensKit

EXPERIENCE

Graduate Research Assistant

Boise State University

August 2022 – October 2024, Boise, ID

- Conducted 30+ research interviews with families to document and analyze parental issues surrounding children's technology usage.
- Provided qualitative and quantitative analysis on familial attitudes about digital use as well as parental strategies to identify common problems.
- Wrote and published journal papers on familial conflicts and dissecting parental fears surrounding technology to offer potential solutions.
- Led a Co-design team with children and researchers to explore HCI challenges and provide solutions, which won awards.

Project Engineer

Balfour Beatty

September 2019 – August 2021, Boardman, Oregon

- Managed and verified work progress of multidisciplinary teams for installation of equipment and furnishing of industrial Data Centers.
- Directed meetings with the clients to determine needs, schedules, and costs to adhere to contract deadlines.
- Negotiated and established pricing with clients and subcontractors for change orders, and new bids.

E.I.T./ Senior Mechanical Designer

Cator Ruma & Associates

June 2018 – July 2019, Boise, Idaho

- Coordinated and designed HVAC, Plumbing, & Medical Gas/Vacuum systems for several projects including St Luke's.
- Learned how to proficiently use REVIT & AutoCAD to design projects and format permit drawings.
- Determined necessary system sizing and equipment selection for both plumbing and HVAC systems.