

David Buckley

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EDUCATION

- ◇ Webster Groves High School | St. Louis, MO Graduated: May 2019
- ◇ Washington University in St. Louis | St. Louis, MO Expected Graduation: May 2023
 - Intended Major in Computer Science, BS degree
 - Intended Minor in Film and Media Studies
 - GPA: 3.61
 - Relevant Coursework: Data Structures & Algorithms, Analysis of Algorithms, Rapid Prototype Development and Creative Programming, Introduction to Artificial Intelligence, Geometric Computing for Biomedicine, Introduction to Data Visualization

SKILLS

- ◇ Programming Languages: Java, HTML, C#, PHP, Javascript, Python
- ◇ Additional Programming Skills: Linux, SQL, regular expressions, ASP.NET Core, Angular, Git

EXPERIENCE

Head Teaching Assistant for CSE 330S August 2022-Present

- ◇ Course Title: Rapid Prototype Development and Creative Programming
- ◇ Manage other teaching assistants and schedule office hours for the course.
- ◇ Handle the submission of completed grades into Canvas, distribute grading rubrics, and assist teaching assistants with any rubric related question. Also, responsible for handling regrade requests.
- ◇ Continue the same teaching assistant duties as from the past year.

Software Development Intern at Swank Motion Pictures May 2022-August 2022

- ◇ Updated a tool to manage additional publicity data for the Swank film catalog. The additional implemented features allowed employees on the business side to alter publicity without manual database operations by the development team.
- ◇ Added features to the shipment tracking tool to make finding related publicity data and hard drive shipment data quicker.
- ◇ Updated database architecture to link previously unlinked tables and remove unused columns in SQL.
- ◇ Added a tool to manage relations between table rows in database.
- ◇ Developed tools using ASP.NET Core as a backend framework and Angular as a frontend framework.

Teaching Assistant for CSE 347 January 2022-May 2022

- ◇ Course Title: Analysis of Algorithms
- ◇ Assisted students with the main concepts of dynamic programming, divide and conquer algorithms, greedy algorithms, and reductions to NP hard problems.
- ◇ Lead a weekly recitation section for three groups where the students worked through example problems.
- ◇ Graded weekly homework sets.

Teaching Assistant for CSE 330S September 2021-May 2022

- ◇ Help students debug code in PHP, Javascript, HTML, and Python; debug queries in SQL and regular expressions; setup an EC2 instance with AWS, and setup Apache on the instance.
- ◇ Grade projects utilizing the aforementioned elements based on common practices of web security and the websites functionality.

Projects

- ◇ Procedurally generated desert exploration game with randomized game elements
- ◇ Competitive car game with a leaderboard system created using SQL
- ◇ Driving game with artificial intelligence-controlled traffic on a road system.