

# Bryan J. Downing

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## EDUCATION

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### University of Tennessee at Martin

Bachelor of Science in Computer Science

GPA: Cumulative: 3.54, Major: 4.00

Relevant Coursework: Software Engineering, Database Management Systems, Algorithm Design and Analysis

Martin, TN

Aug 2017 - May 2020

## SKILLS

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- **Languages:** C#, Python, C++, JavaScript, Java, HTML5, CSS, C, Haskell, Processing
- **Technologies:** Unity, Blender, Git, LaTeX, MySQL, Eclipse, Visual Studio, IntelliJ, Atom
- **Libraries:** p5.js, Node.js, OpenGL, WebGL

## PROJECTS

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- **SpaghettiCat.com:** A website created to host interactive creative programming applications made using p5.js.
  - Created a full-stack web application including front-end, back-end, and database development.
  - Implemented visual representations of a variety of algorithms, including A\* pathfinding and various cellular automata.
  - Hosted with Nginx, back-end utilizes Node.js and MySQL to serve and manage content.
- **ThinkFast VR:** A WarioWare-inspired virtual reality game created in Unity using the SteamVR toolkit.
  - Designed and implemented a fully-fledged VR title using Unity, with plans for release on Steam.
  - Was responsible for both the creative and logical design of the application.
  - Created a wide array of 3D assets for the game using Blender.
  - Created in a team of two for the Senior Design Seminar at UT Martin.
- **D&D 5e Character Sheet Manager:** A Dungeons & Dragons 5th Edition character sheet management tool.
  - C# WPF application using the .NET framework, created in Visual Studio.
  - Developed on a 2-person team for an upper-level Software Engineering course using Waterfall development techniques.
  - Created full documentation for the application and its interface: UML, project requirements, etc.

## EXPERIENCE

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### UT Martin IT Services

MFD Technician

Martin, TN

April 2019 - Present

- Assisted in repairing, installing, and maintaining all printers, scanners, copiers, and multi-function devices on the UT Martin campus.
- Performed upkeep of MFD department-related tickets using UT Martin's FootPrints ticketing system.

### UT Martin Help Desk

Support Specialist

Martin, TN

November 2017 - April 2019

- Communicated with faculty, staff, and students, providing high level of customer service.
- Performed troubleshooting with various technological issues such as virus removal, hardware/software installation and management, and user login access.

### Bayou Cypress Restaurants

Lead Chef

Hendersonville, TN

October 2015 - August 2017

- Managed food preparation, inventory, and directed kitchen staff.
- Developed leadership and time-management skills working in a heavily time-constrained environment while coordinating other employees.

## ADDITIONAL EXPERIENCE & ACHIEVEMENTS

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- Nominated for the 2017-2018 Outstanding Freshman award by Dr. Kathleen Ericson.
- Team took 2nd/3rd place in the ICPC 2018/2019 Mid-Central USA Regional Programming Contest.
- Presented ThinkFast VR at the 2019 ACM Mid-Southeast Conference in Gatlinburg, TN.