

Kane Templeton

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Education

University of Iowa	Iowa City, IA
- B.S. in Computer Science	Dec 2019
- B.A. in Mathematics	Dec 2019
- Minor in Business Administration	Dec 2019

Projects

1. JBend: Java Backend

Full-stack web application

framework written from scratch.

2020 - present

<https://jbend.org/>

Java, MySQL, JS

- implemented HTTP and WebSocket over bare TCP server
- create a database manager to handle asynchronous queries from multiple threads
- wrote an interpreted scripting language for app config
- stress tested and implemented successful protection measures against Denial of Service attacks
- designed an interface to sync classes and objects with database schema and records automatically

2. Multiplayer Game in C

Open-world tile-based MMO.

Server and client written in pure C.

2019

Project retired

C, SDL2 gfx

- developed working prototype of multiplayer engine with real-time rendering of the map and dynamic entities
- implemented custom communication protocols between server and client for login functions and game controls
- designed user interface components from scratch
- created in-game map builder with instant global updates

3. A-maze-ing

Web game where users can create and solve each other's mazes.

2020

School group project

NodeJS, MySQL

- responsible for entire backend of project
- wrote login system with email verification for registration
- added a metric to rank mazes by difficulty by tracking the number of moves it took the average user to complete it
- weekly SCRUM meetings

Skills

- Software Design
- Network Applications
- Game Programming
- Linux and Bash
- Databases
- RESTful APIs
- Web Hosting
- Agile Development
- Software Testing
- Multithreading
- Cryptography
- Formal Verification
- Portforwarding
- DNS
- SSL Certificates
- Distributed Systems
- Cybersecurity

Languages

Java
C/C++
Python
NodeJS
MySQL
Ruby
html, css, JS
F#
Prolog

Tools

GitHub
AWS
JUnit
WordPress
Rails
Plesk
Springboot
Wireshark
ssh, sftp
nginx
docker
certbot
nmap

Employment

Graduate Teaching Assistant

University of Iowa

January 2020 - May 2021

System Administrator

CryHost Web Hosting

December 2021 - July 2021

Computer Science Tutor

University of Iowa

Aug 2016 - May 2019

Shift Leader

Dunkin Donuts

June 2013 - Oct 2022