

Alic Szecsei

SOFTWARE ENGINEER · GAME DEVELOPER

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Objective

Looking for a full-time entry-level gameplay programming position starting May 2019

Skills

Languages C, C++, C#, JavaScript/TypeScript, Python, Lua, Java, Rust, Dart, Go
Engines Unity, Unreal Engine 4, XNA/MonoGame
Other SteamVR, Oculus SDK, Linear Algebra, Shaders, Unit Testing, Docker, Jira, Git, Perforce

Games & Projects

BugHunters 2

Jan. 2018 - May 2018

A VR game built in Unity in which users pilot a ship using HTC Vive remotes. Implemented motion controls, movement system, and bullet pooling.

Internet of Followers (1st Place, Midwest Big Data Hackathon)

Sept. 2017

A VR application using Unity to interpret and visualize data representing a Twitter follower network in 3D space. Implemented spring force simulation to determine optimal node placements.

Bee Dodger

Jan. 2017 - Apr. 2017

An HTML5 canvas game alongside a custom-built engine. Built support for animated sprites, menus, and a local leaderboard.

Work Experience

Software Engineering Intern

May 2018 - Present

EDAMMO, INC.

Iowa City, IA

- Lead development of public-facing API for machine-learning solutions using Flask, Swagger, PostgreSQL, and SQLAlchemy
- Profiled and optimized critical C++ code to improve overall performance by 28.3%

Teaching Assistant

Jan. 2016 - Present

UNIVERSITY OF IOWA

Iowa City, IA

- TA for undergraduate algorithms, data structures, and introduction to computer science courses, leading discussion sections
- Teach in Robot Theater outreach programs, applying principles of animation and robotics to NAO humanoid robots for live theater

Systems Intern

May 2017 - Aug. 2017

STATE FARM

Bloomington, IL

- Programmed a Processing shader to use Kinect motion tracker data for an interactive display board
- Led a team of interns in the full-stack development of a web survey application using Ember.js

Research Assistant

Jan. 2016 - Dec. 2016

UNIVERSITY OF IOWA

Iowa City, IA

- Developed web, iOS, and Android applications for the National Advanced Driving Simulator and the College of Public Health

Associate Software Engineer

July 2014 - Jan. 2016

ALLSCRIPTS

Springfield, IL

- Developed the FollowMyHealth iOS app, collaborating with developers to maintain feature parity with Android and web interfaces
- Documented previously incomplete features for web API by reverse-engineering web interface calls

Education

Master of Computer Science

Aug. 2016 - Estimated May 2019

UNIVERSITY OF IOWA

Iowa City, IA

- *Relevant Coursework:* Virtual Reality, Design & Analysis of Algorithms, Compiler Construction
- *GPA:* 3.7/4.0

BS in Computer Science

Aug. 2010 - May 2014

UNIVERSITY OF IOWA

Iowa City, IA

- *Relevant Coursework:* iOS App Development, Distributed Systems, Database Systems, Operating Systems

Service & Leadership

2018-2019 **Vice President**, Students in Technology and Sciences

2018-2019 **Vice President**, EPX Studio

2017-2018 **Scheduling Director**, EPX Studio