

# Benjamin Fickes

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Personal Site: <https://benfickes.dev>

## EDUCATION

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**Northeastern University**, Boston, MA

September 2016-May 2020

**College of Computer and Information Science**

Candidate for a Bachelor of Science in Computer Science and Game Development

**Honors:** GPA 3.95/4.0, University Scholars Program, Dean's List (all semesters)

**Relevant Courses:** Computer Systems, Computer Graphics, Networks & Distributed Systems, Mobile App Development, Building Game Engines, Game AI, Algorithms & Data, Programming in C++

**Activities:** Intervarsity Multiethnic Christian Fellowship (Group Leader), St. Stephen's Afterschool Volunteer, Open Table College Ministry

## COMPUTER KNOWLEDGE

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Programming Languages: **Proficient in:** Python, C++, C#, Go, Java

**Familiar with:** Bash, HTML, CSS, JavaScript, SQL

Operating Systems: Windows, Linux, Mac OS X

Software: Git, Perforce, JIRA, Unity, Jet Brains Suite, Visual Studio, Vim

## PROFESSIONAL EXPERIENCE

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Software Engineering Co-op, **Demiurge Studios**, Boston, MA

May 2019-August 2019

- Created extensible server tool to allow customer service to modify currency in player save file
- Implemented features across tech stack, from C++/C# game code to Go and SQL server code
- Fixed bugs and implemented new features in SEGA Heroes, including ten new characters
- Coordinated work and task priority with artists and designers for new character implementations

Software Engineering Co-op, **Pivotal**, New York, NY

July 2018-December 2018

- Enhanced and maintained Cloud Foundry buildpacks written in Go, Ruby, and Bash
- Automated and debugged testing pipelines, ensuring quality of new and existing features
- Developed prototype V3 buildpacks capable of producing OCI compliant images
- Responded to community issues through Github and Slack

Com Excellence Dashboard Intern, **Glacier Garlock Bearings**, Thorofare, NJ

June 2017-August 2017

- Developed interactive QlikView charts to show sales statistics
- Communicated with international team, including weekly video calls, to gather requirements

## PROJECTS

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**Nekromanteia**

September 2019-April 2020

- 2D Unity stealth game – with necromancy! – utilizing custom C# scripts
- Customizable patrols and actions that allow designers to craft enemy behaviors
- Procedural lighting generated from enemies' flashlights indicating whether they can see you
- Interaction prompted with enemies and environment, cataloged in updating journal

**Diet Clash**

March 2020-April 2020

- Android app, written in Java, for tracking user eating habits via SQLite tables
- Displays list of nearby grocery stores using Google Places API
- Manages goals of different durations and tracks user progress toward completing them

**HuskyMalloc**

March 2019

- C memory allocator that tracks free and used memory
- Divides memory pages into memory buckets and tracks leftover partial buckets

**INTERESTS:** Ran in 2017 Boston Marathon, compete in triathlons, write fantasy/science fiction