

# Michael Kiros

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## EDUCATION

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**TEXAS TECH UNIVERSITY** (Aug 2015 – Present)

**Expected Graduation Date:** December 2019

Lubbock, TX

**GPA:** 3.2

*Bachelor of Science in Computer Science, Minor in Mathematics*

- **Relevant Coursework:** Programming Principles I & II, **Software Engineering I & II**, **Data Structures**, **Object-Oriented Programming**, **Design/Analysis of Algorithms**, Discrete Computational Structures, Concepts of Database Systems, Intro to Artificial Intelligence, Operating Systems, Human Computer Interaction, Theory of Automata
- **Extracurricular Activities:** Software Development Club (SDC), Association for Computing Machinery (ACM), Habesha Student Association (HSA)

## GITHUB PROJECTS

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**FLIRTTDB**, *Personal project*

**576 Stars**

- Started a repository for the collection of **IDA FLIRT** signatures for reverse engineering binaries
- Managing the submission of binary signatures to maintain the quality/consistency of the repository
- Maintaining the library of **FLIRT** signatures and keeping it up-to-date with library versioning

**Hadesmem**, *Contributed to*

**13 Stars**

- Contributed a vectored-based exception handler iterator implemented using **C++11**
- Unit tested (Boost.Test) the **C++11** codebase and suggested significant fixes and features

**Color**, *Personal project*

**13 Stars**

- Designed a small Domain-Specific Language (DSL) for outputting text with colors
- Created a small library that implements the DSL and allows printing colored text to the console

**time**, *Personal project*

**1 Stars**

- Created a port of the **UNIX time** command for Windows using **C**

**Other contributions:** maktm/flac-editor, microsoft/vcpkg, radareorg/radare2

## PROFESSIONAL EXPERIENCE

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**IT HELP CENTRAL, Lubbock, TX**

Jun 2019 - Present

*Student Assistant III*

- Supervise a team of student analysts and technicians with the goal of providing all TTU-affiliates with IT troubleshooting, training, and general assistance
- Help maintain the askIT knowledgebase used by employees and customers alike by creating, editing, and flagging technical solutions
- Communicate ideas and execute tasks with the help of student analysts/technicians on behalf of full-time staff members to ensure excellent customer satisfaction

**AHADOOTEC, Addis Ababa, Ethiopia**

Jan 2014 – Mar 2014

*Software Developer (Intern)*

- Worked alongside a team of junior developers tasked with building an Android app for student time management
- Used a variety of tools to communicate ideas with team members and version control for coordinated development
- Practiced designing and prototyping Android applications using Inkscape

## SKILLS

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- Programming languages, tools, and libraries
  - Advanced: **C**, **C++**; Intermediate: Python, Java, x86/x86-64 Assembly; Novice: HTML, CSS and JavaScript
  - Operating systems: Windows, Linux (Arch Linux, Ubuntu, Mint)
  - Developer tools: **Git**, **Visual Studio**, CLion, Vim, IDA (disassembler), Adobe XD (designing & prototyping)
  - Libraries: **Google Test**, **Boost**, Boost.Asio, Boost.Test, **Django**, Flask, Qt, libFLAC, Hadesmem
- Spoken languages
  - Native or bilingual proficiency in English
  - Native or bilingual proficiency in Amharic