**Alex Lauderdale**

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**EDUCATION**

**Master of Science** – Computing Department, GPA: 3.9, December 2018

Concentrations: **Applied Computer Science**

East Tennessee State University (ETSU), Johnson City, TN

Thesis Topic: Cognitive-Semantic Modeling of Fictional Narrative

Selected Courses: Artificial Intelligence, Software Project Management

**Bachelor of Science** - Computing Department, Magna Cum Laude, May 2014

Concentrations: **Computer Science**, **Information Technology**

East Tennessee State University (ETSU), Johnson City, TN

Accreditation: Computing Accreditation Commission (CAC) of ABET

Honors: Upsilon Pi Epsilon, Golden Key Honor Society

Selected Courses: Essentials of Information Security, Android Development

**Associate of Science** - Mathematics, Magna Cum Laude, May 2014

Walters State Community College (WSCC), Morristown, TN

Honors: 2013-2014 Outstanding Student Award – Mathematics, Phi Theta Kappa

**PUBLICATIONS**

**Penumbra: A Cognitive-Semantic Framework for Modeling Narrative**

Thesis in Applied Computer Science, East Tennessee State University, December 2018

Description:

**PROJECT EXPERIENCE**

**Dreamscape Text-Based RPG** (Founder, Lead Developer), May 2006 – May 2014

* Designed and implemented a tightly integrated set of game-specific libraries and commands.
* Accepted and managed bug reports and feature requests from end users of the game software.
* Applied the principles of island theory to ensure a flexible and engaging storyline for players.
* Modified the source code of a multi-user game platform to implement additional features.
* Provided oversight and support for additional team members as the project expanded.

**Software Systems Engineering Team** (Technical Leader), ETSU,Aug. 2012 – May 2013

* Developed test-cases and performed white box and black box testing.
* Coordinated with other project leaders to ensure the integrity and consistency of the documentation.
* Gathered requirements, designed and provided oversight for the creation of relevant, interoperable classes.
* Designed and implemented classes in C# as part of a successful implementation in ASP.NET, MVC 4.0.

**Android Development Team,** ETSU,Dec. 2012

* Developed backend classes and algorithms for an interactive puzzle game.
* Used proofing techniques to test and optimize algorithms mathematically.
* Applied skills in Java programming and discrete mathematics.

**WORK EXPERIENCE**

**Tutor (Independent Contractor),** Tutor.com, Sept. 2018 – Present

* Worked in a fast-paced, online environment to deliver tutoring services to students nation-wide.
* Provided tutoring to students seeking help with programming and Microsoft Office software.

**Freelance Programmer,** May 2014 – Present

* Coordinated directly with clients to establish software feature requirements.
* Applied Agile development principles to create and deliver robust software solutions.
* Utilized time management strategies to ensure efficient product turnaround and accurate billing.

**Adjunct Professor,** Department of Computer Science, Walters State Community College, May 2018 – Aug. 2018

* Coordinated with other instructors to successfully deliver a free educational workshop for adult learners.
* Provided instruction to students in the proficient use of Microsoft Windows and Microsoft Office.
* Designed assignments and provided feedback and one-on-one assistance to students via email.

**Teaching Associate,** Department of Computing, East Tennessee State University, Aug. 2016 – May 2018

* Provided instruction to students in the proficient use of Microsoft Windows and Microsoft Office.
* Provided feedback and one-on-one assistance to students via email and during scheduled office hours.
* Coordinated with other instructors to plan and implement a successful curriculum.

**Student Tutor**, Tutoring, Walters State Community College, Jan. 2008 – Apr. 2008, May 2014 – May 2018

* Provided tutoring for students in college level writing, mathematics, and programming.
* Provided tutoring and technical support for students learning Microsoft Office 2008 and later.
* Provided additional troubleshooting and technical support for students and staff as needed.

**Computer Technician: Intern**, Information and Educational Technology, WSCC, Feb. 2014 – May 2014

* Provided computer troubleshooting, support, and maintenance for college faculty and staff.
* Cooperated with other technicians to maximize the efficiency and overall effectiveness of support.

**PROFESSIONAL DEVELOPMENT**

Languages: C, C++, Assembly (x86), Java, C#, VB.NET, Python, JavaScript, SQL, PHP, HTML, CSS

OS: Linux (Debian, Ubuntu, Red Hat), Windows 10/8/7/ and prior, MacOS, UNIX, Android, iOS

Attributes: Exceptional critical thinking, problem solving, good written/verbal communication skills,

strong mathematics and writing skills, troubleshooting, debugging.

**ACTIVITIES AND COMMUNITY INVOLVEMENT**

Phoenix Firestorm Viewer Project (QA / Beta Testing) 2012 – Present

Dreamscape Roleplaying Group (Gaming / Text-based Roleplaying) 2004 – 2014

East Tennessee State University – Department of Theatre and Dance (Set Construction) 2011 – 2013