

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

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
Methodologies: Agile (XP, Scrum), Unified Process (RUP, AUP), Spiral, Waterfall.
Attributes: Exceptional critical thinking, problem solving, analytical skills, good written/verbal communication skills, strong mathematics and writing skills.

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