ZAKARY OLYARNIK

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EXPERIENCE

Eclipse Gaming Systems   *January 2020 - Present*
Senior Software Engineer   *Duluth, GA*

Learned both the Fusion system and its replacement, Photon. Implement games in Unity from start to finish, including one which became the template for all new games. Design and realize new features, including complicated bonus-in-bonus interactions and recovery cases. Diagnose and solve dozens of field issues within the day I am made aware of them. Became the unofficial ENGR team lead during layoffs and furloughs. Educated other engineers to become stronger themselves by developing documentation about systems, specific tools, and best practices. Joined the framework team and created a new project builder tool, diagnosed and fixed witness builder issues, and implemented a new video/screenshot capture tool. Maintain organization of release versions and corresponding git branches. Manage multiple projects simultaneously and worked directly on 25 of the last 30 released games.

Analytical Graphics, Inc.   *April - September 2017*
Junior Programmer/Developer   *Philadelphia, PA*

Learned the STK engine for simulating and analyzing land, air, and space-based operations. Implemented brightness, contrast, and gamma correction post-process filters. Created new classes to render 3D vectors and axes with dynamic scaling and fully-customizable properties. Refactored/removed ten thousand lines of legacy code. Wrote GLSL shader code and C++ on the Graphics team.

Bentley Systems Inc.   *March - September 2016*
Software Engineering Co-op   *Philadelphia, PA*

Converted software builds to use new code coverage tool, then wrote and ran unit tests to increase coverage. Updated documentation to be built to a set of linked html pages. Wrote code maintenance utility to determine an app's lowest necessary dependencies and update accordingly. Converted old app into a template and overhauled the UI layout and its backend messaging system. Authored and ran usability labs. Communicated daily with international colleagues. Fixed bugs and wrote code in C#, XML, SQL, and command line as necessary.

Skyless Game Studios   *March - September 2015*
Video Game Tester   *Philadelphia, PA*

Learned the Unity Engine, including specific advanced components as needed. Updated games to be compatible with newer versions of Unity. Compiled and thoroughly tested game builds for PC, web, and mobile platforms. Documented bugs and implemented fixes. Overhauled user interface and in-game store components for increased compatibility.

Pannier Corporation   *July - September, 2013 - 2014*
Software Intern   *Glenshaw, PA*

Authored and updated manuals including screenshots and operation instructions for metal tag printers. Designed, implemented, and debugged Visual Basic applications for testing the timing of I/O signals. Created Quick Start guides for marking systems including photography and layout in Photoshop. Wrote ladder logic in Rockwell Automation RS Logix 5000.

ZWOLYA GAMES   *September 2018 - present*
Founder and Sole Proprietor   *Pittsburgh, PA - Duluth GA*

Independently code, create all art assets for, playtest, and market games. Released **Alien Cow Farm** on **Steam** 6/1/19. Released **Undersea Odyssey** on the **Google Play Store** 10/1/19. Wrote **postmortems** for collaborative projects launched to **itch**, **Newgrounds**, and **Simmer**.

EDUCATION

College of Computing and Informatics, Drexel University
Pennoni Honors College, Drexel University, 2013-2018

Bachelor of Science in Computer Science,
Summa Cum Laude, Dean's List, Cumulative 4.0 GPA
Game Programming and Development Concentration
1.5 years cumulative industry experience from co-op jobs

Senior Design:
Team Lead and System Design Lead
Organized and ran team meetings. Delegated weekly work and compiled scrum reports. Interfaced with partner GMAP team. Authored and maintained the SDD and other submission documents. Designed and kept a working knowledge of a 2500-line codebase. Successfully pivoted the game after change requests very late in development. Nominated for CCI Final Four competition and won third place.

Game Development Workshop:
Co-Producer
Delegated all coding tasks. Designed an in-game Build System with interchangeable, modular components. Implemented controller support. Maintained the GDD, compiled weekly scrum reports, and managed all submissions. Created and gave sell presentations for potential investors. Successfully oversaw a team merge and game switch for the second term.

SKILLS

Software Proficiency:
Unity; Adobe Photoshop; Git; Ren'Py; Microsoft Office

Coding Languages:
C#; Java; C++; MATLAB; Python; JavaScript and HTML

HONORS AND AWARDS

Upsilon Pi Epsilon, International Honor Society for Computing and Information Disciplines, 2016 - present

AJ Drexel Scholarship, Drexel University, 2013 - 2018

Valedictorian, Serra Catholic High School, 2013

Fourth Degree Black Belt (Master Level) Promotion, International Tang Soo Do Federation, 2014