

TYLER A. YOUNG

tyler@tylerayoung.com | github.com/s3cur3 | stackoverflow.com/story/tyoung

Work Experience

LEAD APPLICATION DEVELOPER June 2020 – Present

Unbound Photo Browser for Mac Remote

- Rescued the app after years of neglect by the previous developer, fixing dozens of crashing bugs & delivering much-requested new features, leading to a 50% increase in the Mac App Store's average rating in 6 months
- Began transitioning the legacy Objective-C & AppKit codebase to Swift (and SwiftUI, where appropriate)
- Overhauled marketing to improve user perception & better explain unique selling proposition

SENIOR SOFTWARE ENGINEER May 2014 – Present

Laminar Research Remote

- Designed & implemented both the client and server side of X-Plane's massive multiplayer functionality, capable of supporting thousands of simultaneous players in a single shared world.
- Reimagined the user experience for the X-Plane 11 release: in addition to a sleek new look, I overhauled the UI to be heavily visual and entirely interactive, where before it was static, text-based, and unintuitive
- Created an automated testing suite for X-Plane Desktop, and deployed a continuous integration cluster to improve code quality and prevent both functionality and performance regression bugs
- Rescued a Node.js-based web application after abandonment by a contractor
- Helped port desktop technologies to X-Plane Mobile on iOS & Android
- Developed algorithms for building global scenery for X-Plane Mobile, producing a consistent, high-quality experience for end users across all 36,000 airports around the globe

PRINCIPAL CONSULTANT January 2013 – April 2014

Conversion Insights, Inc. Kansas City, Missouri

- Improved clients' online marketing, attracting more high-quality leads & converting more leads into customers
- Designed, developed, and maintained web sites based on WordPress & PHP
- Created email marketing campaigns to improve sales funnel performance

Research Experience

STUDENT RESEARCHER Summer 2012

Dr. Dan Roth, University of Illinois Urbana-Champaign Urbana, Illinois

- Researched the viability of a number of different parallel & distributed computing frameworks (including OpenMP, Hadoop, & CUDA) for our application and advised my mentor regarding the best fit
- Designed an interface for efficiently annotating large document collections using 11 natural language processing tools

STUDENT RESEARCHER Summer 2011

Dr. Saad Biaz, Auburn University Auburn, Alabama

- Consulted and synthesized extant literature in formulating a novel approach to the A* path-planning algorithm
- Gained confidence in presenting various aspects of my work to both peers and faculty
- Produced a literature review and exposition of our "Dynamic Sparse A* Search" (DSAS) algorithm of approximately 20 pages, which is currently being used as a technical report at Auburn University

Education

TRUMAN STATE UNIVERSITY Graduation Date: May 2013

Bachelor of Science, Computer Science Cumulative GPA: 3.9

Minor in Mathematics