



Alex Blank

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PROFILE

Strong C# programmer with full-stack experience developing both web and desktop applications using the latest technologies from the Microsoft stack. I hold a Master's degree in Computer Science from the Rochester Institute of Technology with a focus on security and cryptography. I incorporate knowledge of design patterns and software development best practices into my work, including an awareness of security-related issues and an attention to detail with respect to user experience. I am constantly looking for experiences that will broaden my skillset and allow me to learn new and interesting technologies and concepts.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

ROCHESTER, NY

Computer Science, Master Of Science	3.8 GPA	2009 - 2012
→ Cluster Election: Security		
→ Project Thesis: Chaum-Van Antwerpen Undeniable Signatures On Elliptic Curves		
Computer Science, Bachelor Of Science	2.8 GPA	2001 - 2006

EXPERIENCE

SENIOR APP DEV · ENTRE COMPUTER SERVICES · ROCHESTER, NY · MAR 2013 - PRESENT

- Assumed a central role in development of a mission critical MVC app for a Fortune 1000 company
- Developed web-initiated document scanning functionality, using websockets and TWAIN
- Devised an algorithm for detecting whether a scanned document page is blank
- Integrated Melissa Data validation service over XML using custom heuristics,
- Introduced .NET TAP asynchrony for increased server responsiveness across the application
- Introduced aspect orientation using PostSharp as a way to consolidate logging concerns
- Designed and developed custom, reusable client-side model-bound controls utilizing jQuery and MVC:
 - Date picker with multi-calendar views (jQuery UI), dynamic legend and complex styling (SCSS)
 - Scan, upload, and file display hub that unified disparate file sources, allowed easy model binding, and used a token system to avoid direct object reference vulnerability
- Designed and developed client-side frameworks for ease of use and reusability
 - Modal window framework to separate boilerplate Kendo UI and dev-specified behavior
 - Validation framework for instances where unobtrusive and jquery.validate did not apply
- Leveraged visitor pattern to create a customizable ruleset architecture for working with financial records
- Implemented credit card scanning using Microsoft POS.NET
- Utilized LINQ-to-SQL with Entity Framework to query SQL Server database
- Created custom events module with paging in DNN using knockout, bootstrap, and Web API
- Maintained client mobile apps using Cordova for Android and iOS

SOFTWARE ENGINEER · HEARTLAND PAYMENT SYSTEMS · GATES, NY · NOV 2010 – MAR 2013

- Fully redesigned and rewrote device configuration utility (DevCon) using factory, observer patterns; reduced code size by 40% and noticeably increased application responsiveness
- Added auto-complete login functionality and other enhancements to TimeClock, a time-keeping application
- Soup-to-nuts development of an export utility in C#
- Acted as engineering liaison to third party biometrics provider; provided principal internal biometrics support to customer service representatives
- Fixed bugs and added enhancements to flagship manager programs in VB6
- Developed reconnect functionality to a pin pad device in DevCon; tested using ESD machine
- Wrote HID adapter in C++ for pinpad to eliminate 3rd party constraint

SOFTWARE ENGINEER I · ONE COMMUNICATIONS · ROCHESTER, NY · OCT 2009 – SEP 2010

- Aided in development of vehicle dispatching web app utilizing C#, ASP.NET, SubSonic and AJAX using jQuery
- Took full ownership of project to add parsing of web app query results into a database for later use
- Developed an admin page in an ASP.NET web app to allow users to load excel data into an Oracle database
- Created a Windows service that queried a third party web service and fed results to an Oracle database
- Involved in team effort to rewrite a Java web service to utilize XML objects instead of CORBA objects
- Added functionality to an ASP.NET web application and corresponding Java web service

SOFTWARE ENGINEER · QUALITY VISION INT. · ROCHESTER, NY · AUG 2007 – JULY 2009

- Began in test department, writing API test harnesses in C# for NUnit
- Put in charge of re-orchestrating IPC test infrastructure, streamlined with other NUnit tests
- Moved to dev team November 2008 to begin work on managed/unmanaged API components in C++
- Created diff tool for use on internal database files, considered for inclusion in flagship legacy product
- Refactored classes utilizing polymorphism for code minimization and efficiency

SOFTWARE ENGINEER · BIO-KEY INT. · MARLBOROUGH, MA · OCT 2006 – JAN 2007

- Responsible for conceptual design of integration of mobile solution PocketCop and Oracle Access Manager
- Responsible for maintenance of COMMS layer code in C++
- Researched extensively Oracle Access Manager and Oracle Internet Directory
- Devised web-based form authentication scheme utilizing RSA SecurID plugin within Oracle Access Manager