Michael T. Davis

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# Summary

* Over six years of experience as a software developer in the telecommunications industry.
* A dependable and detail-oriented fast learner who is always looking for new challenges.
* Able to successfully allocate time and effort among multiple projects.
* Notable skills include programming in Java, Python, and JavaScript, particularly using jQuery.

# Professional Experience

Software Developer June 2008 – Present

Compunetix, Inc. » Video Systems Division Monroeville, PA

As a software developer I primarily worked on the UI components of our videoconferencing system, such as operator consoles, and several directly-related server-side components.

Accomplishments:

* Designed and implemented several key components of our videoconferencing system:
  + A suite of single-page web applications for controlling and configuring the system. The web applications share a common MVC architecture built on jQuery.
  + The JSON API that those web applications use to communicate with the server.
  + The Java server component for those web applications, running in Apache Tomcat.
  + A replacement for our Java server component, written in Python, using Twisted.
  + The Java desktop application version of our operator console.
  + A library for Java-based clients of the JSON API, using Jackson.
  + A tool that embeds Jython to run automated testing scripts against our system.
  + The build scripts for the entire project, which automate and coordinate various tools including Rational ClearCase, GNU Make, and Apache Ant.
* Conceived the architecture of a rapid prototype for integrating WebRTC into our videoconferencing system, implemented the front-end, and supervised two other developers in implementation of the back-end. We completed the project well ahead of the deadline, and the prototype was demonstrated at an important trade show.
* Contributed significantly to several other components inherited from other developers:
  + A Java application which serves as the hub for communication between clients, a MySQL database, and several embedded applications.
  + A tool that uses the Apache POI library to generate Excel spreadsheets for billing reports.
* Introduced the Code Collaborator tool into the team’s workflow, which has streamlined our code review process and improved the quality of our products.
* Wrote customer documentation, including release notes, installation procedures, and upgrade procedures.

Computer Engineering Intern Summers of 2005, 2006, and 2007

Compunetix, Inc. » Federal Systems Division Monroeville, PA

As an intern I performed quality assurance testing and developed QA tools. Lessons learned in this position have contributed greatly to my success in writing stable, polished code.

Accomplishments:

* Manually tested a mission-critical audio conferencing system which was being designed for the military, contributing greatly to the success of the project.
* Designed and implemented automated testing software.

# Education

University of Pittsburgh Pittsburgh, PA

* Bachelor of Science in Computer Engineering, with a Minor in Computer Science, April 2008.
* Graduated Summa Cum Laude with a GPA of 3.939.

# Skills

* Languages: Java, Python, JavaScript, HTML, CSS, SQL.
* Libraries and Frameworks: jQuery, jQuery UI, Twisted, Jackson, Jython, web.py, AngularJS, Bootstrap.
* Other Technologies: JSON, XML-RPC, RMI, WebRTC, WebSockets, XSD Schemas, XPath.
* Tools: NetBeans, Sublime Text, Rational ClearCase, Rational ClearQuest, Code Collaborator, Git, Microsoft Office.

# Additional Information

* European Management Seminar Certificate – University of Rouen, France, May 2005.
* Tau Beta Pi (Engineering Honor Society).
* Designed, implemented, and administrated the website for the University of Pittsburgh’s inaugural games of Humans vs. Zombies.