

# Adam J. Cornett

120 Donamere Court, Johns Creek, GA 30022 | (678) 296-1150 | adam.cornett@gmail.com

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**OBJECTIVE** Actively seeking a software development job that focuses on diverse development tools and analytic skills.

**EDUCATION** **Bachelor of Science** Expected Graduation: May 15, 2010  
**Major: Computer Science, Minor: Math**  
Mercer University, Macon, Georgia

## EXTRA-CURRICULAR ACTIVITIES

Student Government Association – Media Secretary (May 2006 – April 2008)  
Mercer University's ACM Programming Team (4 years)  
Phi Delta Theta

## COMPUTER SCIENCE EXPERIENCE

### Languages

Java  
C/C++  
PHP  
Python  
BASH  
JavaScript

### Tools

Eclipse  
Subversion, CVS, Bazaar  
Ant, Maven, CMake, Autotools  
Hudson CI  
LDAP  
Tomcat  
Spring  
JPA  
ZK  
Swing  
HTML/CSS  
Crystal Reports  
Jasper Reports  
Linux

### Databases

PostgreSQL  
Microsoft SQL Server  
MySQL  
Apache Derby  
Microsoft Access

## RELATED EXPERIENCE

### Software Architect and Developer

Summer 2009-Present

North American Money Order Company, Alpharetta, GA

- Developed Agent Information System (AIS)\* used for agent lifecycle management - PostgreSQL backend, Java (Spring/JPA core, ZK frontend)
- Developed and managed system to merge data for competitor agent contracts acquisition\*, enabling integration of approximately 450 acquired agents in 2 months with 2 full-time and 4 part-time staff.
- Deployed company's first Microsoft Exchange environment via hosted Exchange solution
- General tech support – Advanced Excel, Microsoft Access, Exchange for Outlook & iPhone clients

### Software Developer, various university departments

Fall 2008 – present

Mercer University, Macon, GA

- For Student Affairs, responsible for the full life-cycle development of the Co-Curricular Transcript System (CCT)\* using a MS SQL Server/Java web application; currently in production use by the university.
- For SGA as Media Secretary, developed SGA website;\* developed student RSVP system; developed Family Weekend registration and attendance application;\* and other miscellaneous applications.
- For Housing Department, developed a PHP-based application to convert housing compliance reporting from paper-based to on-line system;\* constructed Crystal Reports still in use today.

## REFERENCES

Available upon request.

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\* See PROJECT OVERVIEWS below for additional project descriptions.

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## PROJECT OVERVIEWS

### **Agent Information System (AIS)**

AIS was designed and developed in the July and August of 2009 to manage information about North American Money Order Company's agents. The program manages agents (convenience stores, gas stations, etc) through initial sales contact, approval and installation. It produces pre-filled contracts and reports in PDF format. I was responsible for assessing the current paper-based work flow, determining requirements for a new system, application design and data architecture, implementation, testing and after successful go-live, end user support for the application. The system uses the PostgreSQL database for persistence via JPA. Spring is used for transaction management and dependency injection. The user interface was built using ZK, a Java-based AJAX framework.

### **Agent Acquisition Assimilation System**

During the summer of 2009, North American Money Order Company purchased rights to convert the agents of a competitor. I was tasked with designing and constructing a special-purpose database and data entry interface to enable the NAMOC operations manager and a small team of staff to digitize paper records related to over 500 agents affiliated with the acquiree. I also designed and constructed various reports for organizing the acquired agents for internal credit reviews. This data was then used to auto-generate new contracts which were mailed to over 400 credit-approved agents the day after the acquisition closed. The rapid transfer of information and quick turnaround of proposed contracts resulted in converting more than 90% of the credit-approved agents. This conversion percentage rate far exceeded the rate contemplated in the negotiated price. Also, the efficiency of this approach enabled assimilation of this acquiree with only minimal staff additions and disruption of existing operations. Upon completion of the acquisition work flow, the new agent information was transferred through the AIS application (see above), to the legacy money order tracking system. Due to the short development time-line and expected one-time use, I employed straight-forward tools: MS Access database, entry forms and banded reports.

### **Co-Curricular Transcript System (CCT)**

In the fall of 2008, Mercer University's new president requested that the Student Affairs Division develop a system that would provide a student with official record of relevant non-academic accomplishments, such as campus leadership, community service, fund-raising efforts and involvement in student organizations. I was approached to design and build the system. Over the course of two years I designed, developed and implemented a system to efficiently collect activity participation information on a timely basis, provide internal reports to the university leadership and produce supplemental transcripts for students. The program provides an interface for student organizations to update contact information, rosters and leadership; students can also view their accumulated records. The system also provides role-based security for data entry, system administration and reporting. The system integrates with the university's LDAP system for authentication and interfaces with the legacy student enrollment system for student demographic data used for reporting. All data is stored in a Microsoft SQL Server database with a ZK-based Java application layer.

### **SGA Website**

For Mercer's Student Government Association I build an interactive website hosting various applications to track member attendance, legislation voting and cash disbursements to student organizations. I abandoned SGA's previous static-text site and built an improved SGA web presence from scratch.

### **SGA Family Weekend System**

I built a registration system for Mercer students' families, allowing them to register on-line for the annual campus visit weekend. This application enabled family members to communicate plans to attend, provide sizing information for visitor-gift T-shirts and receive event information. The application also delivered an on-screen visitor check-in process for SGA staff to use on event day to process attendees. A back-end process provided an independent source to audit propriety of cash receipts deposit. The data gathered from the registration system was used for planning catering and other supply orders.