Software Engineering- CSC 4350

Spring 2017

1/20/2017

ADEPT

Amani Konduru

Benjamin Garber (**D**aniel)

Edward Bull

Paul David Utesch

Team

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EDWARD BULL
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EDUCATION

Georgia State University **100/120 Credits**

- Bachelor of Sciences in Computer Science

University of Central Florida **2008 - 2010**

- Master of Arts in English, Dolores A. Auzenne Fellowship Recipient

SKILLS

Python, Java, C, HTML/CSS/Javascript, PHP. Familiar with Unix/Linux, Windows, and VMware ESXi environments.

EXPERIENCE

VERT Intern **2014 - present**

Tripwire, Inc

- **Role:** Set up testing environments, QA IP360 rules, develop IP360 rules
- **Highlights:**
  - Development tasks, especially remote vulnerability detection (ManageEngine)
  - NVIDIA video card detection
  - Created scripts to accelerate tasks (e.g., CPE names, fixing SPM reference links)

Instructor of Record **2009 – 2013**

University of Central Florida

- **Role**: Sole instructor for a dozen English courses including Composition and Creative Writing
- **Highlight**: Piloted a new curriculum based on research about skill transfer and cognitive theory.

REFERENCES

Farhan Jiva, Tripwire VERT: fjiva@tripwire.com
Craig Young, Tripwire VERT: cyoung@tripwire.com
Lane Thames, Tripwire VERT: lthames@tripwire.com
Kristina Kopic, Content Specialist at the Ruderman Family Foundation: kristina@rudermanfoundation.org

BENJAMIN GARBER

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- C: 404-824-3317 | bdanielgarber@gmail.com

SUMMARY OF WORK EXPERIENCE

- Technology Troubleshooter for a Small Business
- Assisted Management in Reorganization of Online Files
- Customer Service – Front Desk / Personal Assistance
- Sales Representative

EDUCATION & ACHIEVEMENTS

GEORGIA STATE UNIVERSITY – 08/2014 to Present
HONORS COLLEGE
Atlanta, Georgia

***Major*: Computer Science**

***Graduation*: May 2018 (expected)**

- Dean's List
  - 5 Semesters

- Hope Scholarship Recipient
- Honors College Scholarship Recipient
- Zell Miller Scholarship (Full Tuition)

NOTABLE UNIVERSITY CLASSES TAKEN

- *Design & Analysis: Algorithms (4520)*
- *Fundamentals of Game Design (4821)*
- *Mobile App Development (4360)*
- *Data Structures (3320)*
- *Introduction to Compilers (4340)*
- *Operating Systems (4320)*
- *Assembly Programming (3210)*
- *Computer Architecture (4210)*
- *Programming Language Concepts (4330)*
- *Web Programming (4370)*
- *Physics I (2211k)*
- *Physics II (2212k)*

AMANI KONDURU

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EDUCATION

Georgia State University, Atlanta, GA Expected May 2019
Bachelors of Science, Computer Science
GPA: 3.69

- Dean's List (Fall 2015, Spring 2016, Fall 2016)

Related Courses: Data Structures, Java Programming

Druid Hills High School, Atlanta, GA May 2015
International Baccalaureate Diploma Programme Member
IB Diploma Candidate, May 2015 Examination Session

TECHNICAL SKILLS

Languages	Java, C
Database	MySQL
Web	HTML, CSS
Software	UNIX, Windows

RELATED EXPERIENCE

Georgia State University, Atlanta, GA Sep 2016-Oct 2016
HackGSU

- I organized, participated and volunteered at the hackathon, and I also worked with the sponsorship team.
- We built an Android banking application.

Nivasoft Inc. Monroe, New Jersey May 2014 -Aug 2014

CAMPUS LEADERSHIP

Georgia State University Computer Science Club, Atlanta GA Aug 2015-Present
President

- Coordinate meetings and events. Discuss finances, events, growth and improvement.
- Hosted many programming events for more than forty plus attendees.

Georgia State University Women in Technology, Atlanta GA Aug 2016-Present
Vice President of Programs

- I do marketing and organizing for WIT. I help assist women in STEM to attain opportunities, so they can achieve their goals. WIT provides mentors, prepares them for interviews, and allows them to network.

Georgia State University Student Alumni Association, Atlanta GA Aug 2016-Present
Director

- Organize events to help students succeed life after college. We help students meet Alumni and organize Lunch and Learn

Paul David Utesch

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Education

Georgia State University, Atlanta GA — Expected Graduation 2017
Bachelor of Science, Computer Science — GPA 3.39
Databases & Knowledge-Base Systems

Work Experience

MakeMyDeal.com, Atlanta GA — August 2015 - current
Database architect/ETL manager

- Managed old ETL tasks and deployed new ones
- Developed integration techniques for 3rd parties over API and FTP
- Optimized and Streamlined existing queries and tables
- Created SSIS and Jasper reports

MakeMyDeal.com, Atlanta GA — January 2015 – May 2015
Frontend Developer

- Troubleshot issues with our widget loading and appearing correctly
- Deployed an ELK stack

Federal Reserve Bank of Atlanta, Atlanta, GA — May 2014 – January 2015
IT intern

- Moved client computers to storage for renovations and restored setup when complete
- Troubleshot client's computer issues
- Managed loaner laptops and virtual machines

Total Computer Solutions, Greensboro, NC — June 2013 - July 2013
IT intern

- Performed remote maintenance on client computers
- Visited customer sites to backup information and to organize computers
- Prepared, delivered, and installed new computers at client location
- Repaired computers to working condition
- Salvaged useful parts from unrecoverable computers

Skills

- Java programming language
- SQL querying
- SSIS and Talend ETL tools
- Windows and Linux operating systems
- Computer Hardware
- Type speed average: 80 WPM

Topic: An encryption and decryption system for message communication

We will have two layers of encryption. The first will be basic SSL for encrypted communications. This is already implemented in Java and is as simple as creating an SSLSocket. The second layer will be message layer encryption, and this is unlocked with a user's password and a key. The messages stored on disk will always be encrypted until they are viewed by a user. This gives us a chance to implement some encryption algorithms ourselves rather than relying on a Java library.

There would be two components to the program. A server component, and a client component. The server would always have a listening socket. Any time a connection is initiated, this will spawn off a thread that handles the new connection, while the main thread will continue to listen for further connections. This way we can handle multiple connections at the same time. Once a message is received, the metadata will be used to store the encrypted message in a simple PostgresSQL database, with the owner as a primary key. We might be able to use the SMTPS protocol for server exchanges. The client would be a program that on run and periodically afterward would connect to a designated server and use either an IMAPS or POP3S protocol to request a sync for a particular user. The server needs to know how to handle both SMTPS and IMAPS or POP3S interactions. The client program should have some basic login functionality and maybe a SQLite database to store usernames and a hashed/salted password. If this isn't enough to satisfy the requirements, we would implement a simple GUI with spare work cycles.

For testing purposes, we would require a third program for the professor to run. This program would install the server component with its database, and the client component with its database, to a local folder and then run both. The client would be pre-configured to simply connect to local host as its server with whatever port the server is designated to listen on. The tester could then create two test accounts, send an e-mail from one to the other, and make sure it works.

Work Structure Document (WSD)

Name	**Role**
Amani Konduru	Project manager and tester -Document handler -Java Programmer -User Guide
Edward Bull	Developer and programmer -Servers -Java Programmer -User Guide
Benjamin Garber (Daniel)	Programmer and tester -Java Programmer -GUI tester
Paul David Utesch	Developer and programmer -Java Programmer