

Idris Hanafi

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Education:

Fall 2016 – Present: M.S. in Computer Science. University of Michigan, Ann Arbor
• GPA 4.00

Fall 2015 – Transferred: M.S. in Computer Science. Southern Connecticut State University (SCSU)
• GPA 3.88
• Research Assistant
• Wrote their first Big Data course curriculum
• Created their first Hadoop cluster lab

Fall 2012 – Summer 2015: B.S. of Computer Science (Honors). Central Connecticut State Univ. (CCSU)
• GPA 3.41
• Youngest Person to achieve Bachelor Degree of Computer Science (16 Years Old) from CCSU
• Upsilon Pi Epsilon (UPE) Honor Society
• National Science Foundation (NSF) Scholarship/Grant as an Undergraduate
• Computer Science Honor at Central Connecticut State University
• Dean's List 5 Semesters
• President's List 1 Semester

Fall 2010 – Spring 2012: Gateway Community College – New Haven, CT
• GPA: 3.8
• Earned college credits while in high school from Gateway Community College
• Dean's List every semester

Work Experience:

• Full-Stack Developer for startup company DREAMSQUAD (Chicago) iOS, Android, and Web app.

Research Paper:

• Published May 2016:
Idris Hanafi and Amal Abdel-Raouf “P-Codec: Parallel Compressed File Decompression Algorithm for Hadoop”
International Journal of Computers & Technology, v. 15, n. 8, p. 6991-6998, May 2016. ISSN 2277- 3061.
Available at: <https://cirworld.com/index.php/ijct/article/view/1500>

Research Experience:

Fall 2016 – Present: Research Assistant, Computer Science Dept., University of Michigan - Ann Arbor.
• Advisor: Professor Barzan Mozafari

Fall 2015 – Summer 2016: Research Assistant, Computer Science Dept., Southern Connecticut State University.
• Advisor: Professor Amal Abdel-Raouf
• Spring 2016: Research in developing a parallel compressed file decompression algorithm for Hadoop.
• Fall 2015: Research in implementing a workload balancer for Big Data on nodes of a cluster using Hadoop's MapReduce.

Teaching Experience:

Fall 2012 – Present: Personal Tutor for Computer Programming.

- Basic Java programming to intensive Java Android Programming
- Web Programming (HTML, CSS, PHP, and MySQL)
- Basic C Programming
- Mobile App Development (Android and iOS)

Fall 2009 – Present: Personal Teacher of Math for High School level.

- From basic math to Calculus II

Fall 2009 – Present: Personal Teacher of Physics for High School level.

- From basic concepts of Physics to Calculus Based Physics

Fall 2010 – Fall 2014: Teacher of an Arabic Sunday school.

Working Experience:

2011 – Present: Local IT ever since I was 12 years old.

- Fix hardware and software problems for Desktops and Laptop
- Virus Removal

Every Summer Time: IT works at Algosmith Computing, West Haven, CT.

- Fix Hardware and Software problems
- Troubleshooting Computer Network
- Assisted in build an ecommerce project using asp.net
- Built a database (MS SQL server 2008)

Summer 2009: Voluntary Database Internship, Masjid Al-Islam Organization, New Haven, CT.

- Managed and updated the website (<http://www.masjidalislam.net/>) (PHP and Joomla)
- Gathered the data to put into the database (MySQL)

Graduate Courses:

- Database Systems ('16), Fundamental of Mobile App Development ('16), Secure Systems ('16), Principle of Information Security ('15), Computer Simulation & Modelling ('15), Software Engineering ('15)

Undergraduate Courses:

- Computer Security ('15), Computer Architecture('15), Systems Programming ('14), Digital Systems Design ('14), Game Development('14), Algorithms ('14), Computer Networking ('14), Human-Computer Interaction ('14), Programming Languages ('13), Data Structures ('13), Assembly ('13), Java Programming ('12), C/C++ Programming('12)

Programming Languages and Systems Experiences:

- Hadoop, Spark, EmberJS, Handlebars, Django, C++, C, Java, C#, Swift 3, CSS, HTML, PHP, SQL, NoSQL, JavaScript, NodeJS, Python, AngularJS, and Android Java SDK

Extra-Curricular and School Programming:

Barcode Scanner Application: CSC535 Software Engineering, SCSU, Fall 2015.

- Developed in a team, a barcode scanner app for Stores and Companies to use.
- Developed for Android phones using Java SDK, PHP, MySQL, and XML.
- Used GitHub as the collaborative platform.
- Used Agile Method for developing

Hadoop for Southern Connecticut State University: Research, SCSU, Fall 2015.

- A cluster was setup on the server of Southern Connecticut State University for processing the School's data it has.

Biometric Online Login Page: CSC555 Principle of Information Security, SCSU, Fall 2015.

- Developed a login page that considers the users behavioral biometric of entering in the password.
- Developed in using HTML, JavaScript, PHP, and MySQL.

Lockdown Application: Spring 2015.

- Developed for Central Connecticut State University
- Used for Android phones.

Central Connecticut State University News Website: Spring 2015.

- Helped front-end developer
- Developed in a team using HTML, CSS, JavaScript, PHP, and MySQL.

Ubuntu UNIX/LINUX Shell: CS355 Systems Programming, Fall 2014.

- Developed a UNIX/LINUX Shell in C for Ubuntu Operating System.

Web Browser Game: CS415 Game Development,). Central Connecticut State Univ., Spring 2014.

- Developed a full web browser 2D game in JavaScript
- Used Agile Software Development method.
- The link: <http://www.algosmith.com/game>

File Sharing Software: CS490 Computer Networking,). Central Connecticut State Univ., Spring 2014.

- Developed a classic client-server file sharing software like Napster.
- Developed in Java using Java.net package.

Online Shopping Bot: Spring 2014.

- Developed an online shopping bot that is treated as a web crawler.
- Developed as a browser extension using JavaScript.

Weather Application: CSC290 Human Computer Interaction,). Central Connecticut State Univ., Spring 2014.

- Developed a Weather App that determines the weather forecast for the week and will also alert the phone for school cancellation.
- Data for app is extracted from a local forecast database using Java Web Services.

Company Web Application: TheHartford Insurance Company, Fall 2013.

- Developed and designed Web App using HTML, JavaScript, PHP, and MySQL as a contest for the Connecticut Hartford Insurance Company.

Other Game Development for Android Phones: Summer 2012 to Summer 2013.

- Developed in a team and published Medieval Dodgeball and Ghost Busters to Google Play
- Integrated TapForTap, an advertising SDK, into apps

Awards:

- **Summer 2015:** Youngest person to achieve Bachelor Degree in Computer Science (16 Years Old) at CCSU.
- **Spring 2015:** Upsilon Pi Epsilon (UPE) Honor Society, one of the prestigious Computer Science societies.
- National Science Foundation (NSF) Scholarship/Grant as an Undergraduate.
- Computer Science Honor at Central Connecticut State University.