

# Liuxizi (John) Xu

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**OBJECTIVE:** Seek for a full time position in the field of software development or data analysis that can further develop my technical problem solving and analytical skills.

## EDUCATION

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- Georgia Institute of Technology**, Atlanta, GA *August 2012 – May 2016 (Expected)*  
Bachelor of Science in Computer Engineering  
Information Technology Management Certificate  
GPA: 3.90
- Georgia Tech Lorraine**, Metz, France *May 2013 – August 2013*  
Study Abroad Program for Summer 2013
- Jefferson County International Baccalaureate School**, Irondale, AL *August 2008 – May 2012*  
International Baccalaureate Diploma Recipient

## EXPERIENCE

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- Capital One Financial Corporation**, Richmond, VA *June 2015 – August 2015*  
Technology Development Intern
- Formed a Scrum team with fellow interns to work on anti-money laundering initiative via Big Data technologies. Built a detection application using Apache Hive and Spark to check millions of records with 50% less processing time than current implementation.
  - Developed a monitoring system prototype for Capital One's mobile applications using Node.js, React.js, and MongoDB. The prototype collects performance information from existing monitoring software through APIs and displays intuitive analysis result via Web interface.
- Georgia Institute of Technology**, Atlanta, GA *August 2015 - Present*  
Vertically Integrated Projects (VIP)
- Explore the uses of Big Data in Learning analytics to enhance Massive Online Open Courses (MOOCs) education. Georgia Tech's MOOCs serve as data sources and as targets for analysis.
- Opportunity Research Scholar (ORS)** *September 2013 – April 2015*
- As a part of the EMC<sup>2</sup> research group, focused on discovering the electromagnetic information leakages that info-intruders can use to gain access to protected computer data. Currently cell phones are used for testing information leakages.
  - Worked in Intelligent Vision and Automation lab on research project using Xbox 360 Kinect and C++ program to allow a Pioneer 3-AY Mobile robot to track a user in a dynamic environment while avoiding barriers on the Path.
- Corning Incorporated**, Corning, NY *May 2014 – August 2014*  
Software Engineer Intern
- Performed audits and test of source code control tools for manufacture and internal development usage. Recommended a new software with explicit documentation that would save 20% of company's spending in source code control and backup.
  - Improved and debugged existing custom applications for measurement and inspection equipment using C# and XML.
  - Tested SPC software and PLC programs used in manufacturing plants. Identify problems that can cause production failure.
- Major League Hackathon**, Various Locations *September 2014 – Present*  
Hackathon Projects
- HackGT – Built a smart temperature adjustable blanket with Intel Edison as the controller. Users can use an Android app to control and monitor blanket's temperature. Firebase served as the backend to store and adjust temperature data.
  - HackDuke – Used Apache Flume and RSS to collect news from various sources and ran sentiment analysis via Map Reduce to determine trending topics and the "happiness" level of each news. The result was displayed via Flask on AWS instances.
  - MHack – Created a MEAN stack web app for free medical screening, targeting the uninsured population. The app also performs data analysis to see the relationship between geographical location and medical condition.

## SKILLS/INTERESTS

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**Programming:** Python, JavaScript, Java, C/C++, Assembly, Matlab, HTML, CSS, Swift  
**Software Skills:** OOP, MVC, RESTful API, MEAN Stack, Big Data framework (Spark, Hive, Pig, Storm, Kafka)  
**Hardware Skills:** Computer Network, Computer Architecture, Embedded System, Digital Signal Processing, Circuit Analysis  
**Communication:** Git, Scrum, Technical writing, Presentation, Microsoft Office Suite  
**Languages:** Chinese (fluent), English (fluent), French (basic)

## ACTIVITIES/INVOLVMENTS

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Student Center Homecoming Committee, GT 100 Freshman Orientation Team Leader, Undergraduate Tutoring, Eta Kappa Nu Honor Society, Grand Challenge Living and Learning Community, GT-WebDev, Alpha Sigma Phi Fraternity