Andrew **Hernández**

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Experience

Glassboard Technology
VP, Engineering. Aug 2019 – Present
- Responsibilities: system architecture and design, production management, developer operations development, user story creation and task estimation.

Edgestream Partners, LP.
Production Team Member. Apr 2017 – Jan 2018
- Responsibilities: design, construction, and optimization of proprietary trading software; including: data ETL, trade execution, accounting, and reporting.

CUNY School of Professional Studies
Adjunct Lecturer, Data Analytics Department Aug 2010 – Jun 2017
- Courses included: Systems Analysis and Design, Advanced Programming Techniques, Projects in Monte-Carlo Simulation, and Introduction to Quantitative Finance.

Axiom Markets LLC.
Project Manager. Apr 2009 – Apr 2017
- Managerial responsibilities: implementation of Scrum techniques, oversee efforts of six team members, coordinate with product owners and external users to create production tasks.
- Production responsibilities: optimization of market making strategies, system architecture and development, web design, API development, data ETL, data center design and implementation.

Education

M.Phil in Computer Science.
The Graduate Center (CUNY). Jun 2012
- Research focuses: linear segmentation of discourse, computational models of discourse, and word sentiment analysis.
- Other interests included: computer vision, networks, pattern recognition, parallel programming and signal processing.

M.S. in Computer Science.
The City College of New York (CUNY). Jun 2010
- Thesis: Rapid Decoding of Digital Data Streams Using Field Programmable Gate Arrays.
- Study topics included: FPGAs, databases, networks, cloud computing, and Monte-Carlo simulation.

B.Eng. in Computer Engineering.
The City College of New York (CUNY). Nov 2008
- Senior Project Topic: Cloud Computing Implementation of Latent Semantic Analysis.

Skills

Programming: Node.js, C#, C/C++, Python, R, CUDA, XAML, PHP, Java, VHDL, Javascript, MySQL, Assembly, XML, HTML, CSS.
Software: AWS products, Matlab, Linux/Unix, Visual Studio, Eclipse, Enterprise Architect, Adobe Photoshop, Adobe Illustrator, Microsoft Office, Windows.
Other Technologies: UML, FPGA, REST, Websockets, HTTP, TCP/IP, Microcontrollers.

Interests

- Fluent in Spanish.
- Music: proficient in piano, organ, and guitar. Experience in composition.
- Boy Scouts of America: Eagle Scout (2000).
- Amateur woodworking.

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Cover Letter

With my combination of experience and education, I have a proven ability to achieve the information technology and data science objectives of your organization. I am skilled in a variety of technical areas, and I feel confident handling your company's technology needs.

My areas of IT expertise include: cloud computing, networking, databases, programming, and IT team management. My previous employment opportunities have helped me become adept in a wide spectrum of IT tasks from low level data source and API connectivity, to high level desktop and web user interfaces. I am also a quick study in areas of the IT industry in which I have yet to gain extensive experience.

As an adjunct lecturer in the CUNY SPS data analytics department, my expertise was highly valued by students and colleagues. I developed many of the program's curricula in the areas of programming, simulation, and quantitative research. The courses I developed are still currently being taught at CUNY. Within my other various professional positions, data extraction and transformation have been first-order objectives.

I have also seen success in my roles as an IT Manager. At Axiom Markets LLC, I developed and oversaw an ETL production pipeline that not only allowed projects to reach the market faster, but nimbly handled personal turnover. By infusing this pipeline with Agile (specifically Scrum) managerial techniques, my team was able to achieve technology objectives that continue to make the company competitive as a market-maker today. I am also effective in my communication with stakeholders, product owners and intelligence workers.

My resume is attached, and I would love to speak with you in more detail about how I could make significant contributions to the IT objectives of your company. Thank you for your time and consideration.

Sincerely,

Andrew Hernandez