

John Thomas Meersman

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EDUCATION

The University of Georgia, Athens, GA — B.S. in Computer Science, 2019

Relevant Coursework: Operating Systems, Database Management, Software Engineering, Computer Architecture and Organization, Data Structures, Systems Programming, Computational Theory, Advanced Integral Calculus

The University of Georgia, Athens, GA — B.S. in Biochemistry & Molecular Biology, 2018

WORK EXPERIENCE

Data Engineer, iParameters

06/2018 present

- ▶ Created 3 large BI applications powered by OpenFEMA, HIFLD, NOAA, USACE, and private company data (via RESTful APIs) for project management, hazard mitigation, and critical infrastructure monitoring
- ▶ Developed a novel risk assessment model for critical infrastructure using prior disasters, public assistance funding, population, crime, and real-time weather data sets
- ▶ Worked with statisticians to create an expedited methodology for damage repair cost estimates for the Commonwealth of Puerto Rico

Cyber Security Intern, TrustPoint Solutions

05/2017 09/2017

- ▶ Assisted in performing risk assessments and HIPAA gap assessments for clients
- ▶ Developed new security policies and procedures (perimeter security, acceptable use, anti-virus, encryption, etc.) for clients to ensure compliance with HIPAA, FERPA, PCI-DSS, NY DFS and the Joint Commission requirements
- ▶ Developed technology implementation timelines and objectives for clients to meet the NIST Cyber Security Framework standard (SP 800-30 & SP 800-53)
- ▶ Assisted in the implementation of robust firewalls and network segmentation, penetration testing, phishing, simulations, advanced threat protection, 2FA, disk encryption, forensic toolkits, data loss prevention, and other technical controls for clients
- ▶ Created a comprehensive Vendor Risk Assessment policy and procedure for clients to use on proposed 3rd party business solutions
- ▶ Researched potential new clients for the company and assisted in all parts of the sales cycle

Pediatric Pathology Lab Researcher, Children's Healthcare of Atlanta

05/2016 08/2016

- ▶ Mined and cleaned data from outpatient laboratory test databases
- ▶ Successfully showed with statistical significance where patient laboratory tests should be sent to improve both cost efficiency and patient outcomes
- ▶ Delivered results as evidence in laboratory policy change discussions with CHOA executives to improve quality of care
- ▶ Developed a new data intelligence application for the Pediatric Pathology department and implemented software upgrades for established data intelligence applications
- ▶ Designed a course in basic Qlik BI app development, empowering laboratory personnel to create their own applications

Business Intelligence Intern, IPC Global

05/2015 08/2015

- ▶ Trained on Qlik application development and enterprise data modeling
 - ▶ Built, tested, and deployed 19 difference Qlik BI applications for the Sibley Heart Center at Children's Healthcare of Atlanta
 - ▶ Designed application templates to be used with IPC customers using similar DBMS (Epic CDW)
 - ▶ Delivered financial data analyses to The Indian River Club (Vero Beach, FL), identifying areas of waste and proposing new cost efficiency strategies
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PROJECTS AND RESEARCH

UGA Computational Systems Biology Lab Research

08/2016 05/2017

- ▶ Completed metabolic growth and gene deletion research on 40+ computer-based models of cyanobacteria
- ▶ Created and managed a public database of optimized bacterial models for future wet-lab research

- Developed scripts and functions in MATLAB & Python for biomolecular analysis (COBRA Toolbox & cobrapy)
 - Optimized source code developed personally and by other lab researchers using asymptotic analysis and Big-O notation
 - Conducted research in UGA's HPC cluster (64-bit CentOS 6.5, QDR Infiniband network for internodal communication)
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EXTRACURRICULAR ACTIVITIES AND LEADERSHIP

- **Georgia Rowing Club**, 2014-present
 - Leadership: Apparel Officer (2015-16), Finance Officer (2016-17), Executive Officer (2017-18), Assistant Coach (2018-19)
 - Directed a collegiate athletic team of >160 students, ensuring that all reports, waivers, rosters, travel requests, CPR certifications, community service, and all other compliance requirements were met
 - Managed a budget of >\$200,000, which included full-time salaries for 3 coaches, truck/boat insurance and registration, national/regional dues, regatta entries, team lodging and transportation, and many other purchases
 - Completed team 501(c)(3) tax returns and federal/state registrations
 - Worked closely with the other officers to grow the team size by 108% from Spring 2015 to Fall 2017, and increased fundraising revenue from ~\$25,000/yr to >\$40,000/yr in the same timeframe
 - Practiced and trained 20-25 hours a week in addition to fulfilling the duties above and maintaining good academic standing with UGA
 - Represented the University of Georgia on a regional and national level, winning over 15 medals during my career
 - **UGA Club Sports Executive Committee**, 2017-present
 - In charge of oversight for 40+ club sports at UGA, imposing sanctions on non-compliant clubs to reduce University and Recreational Sports Department risk
 - Determined \$150,000 worth of budget allocations for all club sport programs, based on prior years' compliance, growth, and current members
 - **UGA Association for Computing Machinery**, 2016-present
 - **UGA Society for Cyber Security**,
 - Leadership: founding member & Vice President (2016-18), President (2018-19)
 - Set up IT lab infrastructure for club members to develop skills and run programs in (VMware ESXi server)
 - Doubled the number of companies/organizations who speak at general body meetings and recruit members from prior year
 - Formed and trained UGA's first undergraduate CTF Team/Blue team to compete in the SEC Cyber Defense Competition
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TECHNICAL SKILLS

- **Proficiencies:** Python, C/C++, Java, SQL, Shell scripting
 - **Familiar Languages:** Swift, JavaScript, MATLAB
 - **Platforms/Applications:** Qlik, Apache Hadoop, Git
 - **Operating Systems:** Windows, macOS/OS X, Linux (Kali, Ubuntu, CentOS, RHEL), Debian
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HONORS AND AWARDS

2018-19 FBI Honors Program Student | UGA Honors Program | National Merit Commended Scholar
National AP Scholar with Distinction | Georgia Zell Miller Scholarship | UGA Presidential Scholarship
IPC Global Scholarship | Pinecrest Academy Integer Award | Pinecrest Academy Class of '14 Salutatorian