NAME: Matthew Chesnut

PROPOSED POSITION: Computer Scientist III

EDUCATION:
Seattle University, Seattle, WA (2016), Bachelor of Arts in Economics with an International Development Specialization and International Studies, Summa Cum Laude (BA)

- Sullivan Leadership Award: Full scholarship awarded to students demonstrating a dedication to service, leadership, academic rigor, community, spirituality and global awareness.
- Noel J. Brown Award: Awarded annually to the graduating student with the highest International Studies GPA.
- Beta Gamma Sigma Honors Society: The highest recognition a business student anywhere in the world can receive in a business program accredited by AACSB International.

EXPERIENCE:
Mr. Chesnut is a computer scientist with 6+ years of experience in data management, computer program design, computer program implementation, and program management. He brings a strong work ethic and an aptitude for data-driven program management for federal clients. Mr. Chesnut's technical skills include experience with Tableau, Tableau Prep, SQL, R, RStudio, Excel, JMP, Salesforce, and Power BI. He has reached Interagency Language Roundtable Level 3 proficiency in Swahili and elementary proficiency in Spanish. He holds a Bachelor's degree in Economics and International Studies.

Cobec Consulting, Inc. **2020/01 - Present**
Title: Consultant
Supervisor: Nathan Honsowetz, (737) 297-4203

- Utilize data visualization and computer science techniques to develop program management dashboards that process and analyze schedule, inventory, and financial information for the Federal Aviation Administration's (FAA) Voice Switch and Recording (VS&R) program.
- Use Tableau visualization tools to translate best financial business practices into easy-to-understand charts for over $700 million of VS&R funds. The dashboard allows identification of funds at risk of expiration and, in its first use case, ensured $18 million of program funding would not expire.
- Designed and implemented a computer algorithm to process and analyze complex, large-scale FAA financial data. The algorithm's complete accuracy identifies errors in the FAA legacy code systems (i.e. OBIWAN and/or DELPHI) as soon as they occur.
- Utilize best business inventory data practices to review the existing legacy code system (i.e., the Facility Service and Equipment Profile, FSEP) against existing program data

formats to determine which of the 1200 systems pertinent to the VS&R program office display valid data and which display erroneous data. Develop computer processes and algorithms to streamline and standardize the comparison process.

- Develop high level scheduling dashboards based of the existing legacy code systems (i.e., the Corporate Work Plan, CWP) to allow program stakeholders visibility into the FAA's scheduling system of record. Design and implement a computer algorithm that merges multiple live, large-scale data sources and corrects data errors. In addition, create work groups and resources for program schedulers who need to familiarize themselves with the FAA's best business practices for scheduling.
- Administer a Tableau Server site for the VS&R program including managing permissions, scheduling data refreshes, updating business rules, and complying with FAA security best business practices.
- Provide ad hoc data analysis services for VS&R senior leaders and other stakeholders by utilizing computer science best practices to synthesize legacy database systems with other informal data sources. For example, modeled the number and locations of Radio Control Equipment across the NAS to serve as the basis for the cost and schedule of the upcoming Air-to-Ground Protocol Converter program.
- Review program management deliverables to ensure information is clear and comprehensive.
- Analyze and process data concerning parts and equipment failures to determine when aging VS&R systems would not longer be able to service the National Airspace System (NAS).
- Use high performance computing, big data analytics and data visualization tools and techniques to assist in making acquisition decisions and maximize operational effectiveness and efficiency for the VS&R program.
- Perform FAA program management and analysis though data collection, data normalization techniques statistical analysis, performance metrics development and tracking, and other mathematical/operations research techniques and methods.

Program Officer **2017/06 – 2020/01**
Title: U.S. Department of Defense (Defense Language and National Security Education Office, National Security Education Program)
Supervisor: Alison Patz, (608) 217-1152

- Automated federal service reporting by converting over 25 years of NSEP policy and legislation into a computer process that analyzes and manages the data. The new algorithm saves over 30 hours of work per week and processes over 400 reports per year.
- Analyzed existing legacy code systems to determine which data fields required cleaning, transfer, or validation. Managed a seven-person team's data-cleaning efforts of ~7,000 award recipient records with over 125 fields in order to switch from a Microsoft Access to a MySQL database. Successfully migrated all program activities to the new database.

- Responded to data requests with Tableau visualizations and Excel reports. Analyzed and visualized workplace and service requirement data for NSEP's annual report to Congress.
- Designed and tested website improvements to reduce NSEP staff's workload and improve award recipient's user experience. Identified the existing legacy code systems that occupy the most NSEP staff time or spur the most awardee questions and then adjust the service reporting algorithm until the issue is resolved.
- Streamlined process for reaching out to awardees who had neglected their reporting requirement by developing a refreshable Excel report for team coordination, identifying awardees who had fallen off NSEP's radar by crosschecking NSEP databases and records, and better communicating policy through the website and automated emails. These measures along with the improvement to the design and implementation of the existing legacy code system eliminated a backlog of ~800 awardees.
- Revised and drafted NSEP program policy by analyzing legislation, developing amendments with the program's legal counsel, and disseminating the policy revisions to colleagues in order to put them into practice.

Derflan Consulting **2017/04 – 2017/06**
Title: Junior Project Manager
Supervisor: Shanaz Diefendorf, (425) 753-2333

- Managed the data ingestion process for PowerBI dashboards analyzing Microsoft's global Windows 10 marketing teams' key performance indicators.

PATH Global Health **2016/05 – 2017/02**
Title: Intern to the President
Supervisor: Steve Davis (206) 335-9559

- Primary researcher and fact-checker for President Steve Davis' external communications and global health articles appearing in the Stanford Social Innovation Review and the Huffington Post.
- Presented qualitative and quantitative research relating to a wide range of global health topics.

DESC Homeless Services **2014/06 – 2014/09**
Title: Intern for Fund Development
Supervisor: Donald Rupp (206) 682-0164 x3211

- Organized and implemented Downtown Emergency Service Center's (DESC) two-week, staff-only drive which generated over 50 household kits, each an estimated $250 value, intended to furnish apartments of homeless people moving into permanent housing for the first time.
- Developed and implemented a basic computer algorithm to ensure supply donations for the drive were balanced in order to ensure all 50 household kits were complete.
- Recruited and managed Drive Leaders across 20 DESC locations and coordinated the pickup and organization of the donations.

Initiative for Global Development **2013/01 – 2013/06**

Title: Research Intern
Supervisor: Josie Luu (206) 373-7160

- Extensively researched U.S., African, and European corporations' value chains and business strategies in Africa, drew their connections to relevant IGD initiatives, and composed and presented internal reports of my findings to Senior IGD stakeholders.
- Utilized a state-of-the-art Salesforce computer database system to manage research findings across the organization and ensure the data profiles of target companies were complete.

Senator Patty Murray's Office **2012/03 – 2012/06**
Title: Intern for Constituent Services

- Corresponded with approximately 20 constituents per day, independently researched solutions to their concerns with the federal government, and communicated these issues to the appropriate government agencies by speaking on the authority of Washington State Senator Patty Murray.

CERTIFICATION:
"I hereby certify that the information contained in this resume is correct and accurate."

Signature

11/17/2022
Date