

Tyler Sapp

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Professional Profile

Recent graduate with a Bachelor of Science in Bioinformatics: Computational Sciences and a minor in Computer Science from Virginia Commonwealth University. Strong analytical skills developed through rigorous coursework in statistical computations, bioinformatics, data analysis, and extensive experience with clinical and pharmacy systems. Demonstrated ability to manage complex datasets, ensure data integrity, and support clinical operations through efficient workflow management and meticulous data validation. Proven teamwork, communication, and organizational skills with a passion for contributing to high-impact, patient-centered research.

Education

Virginia Commonwealth University — Richmond, VA

Bachelor of Science in Bioinformatics: Computational Sciences

Minor: Computer Science | *May 2025*

Relevant Coursework:

Statistical Computation • Genetics • Molecular Biology • Data Structures • SQL Databases • Software Development • Bioinformatics Capstone Research Project • Discrete Structures • Algorithm Analysis w/ Advanced Data Structures • Data Structures and Object Oriented Programming

Skills Profile

- **Programming Knowledge:** Proficient in Java, Python, SQL, Quarto, R Studio, JavaScript, PHP, HTML, CSS, Docker and statistical analysis using linear mixed models (LMM) and principal component analysis (PCA).
- **Pharmacy Technician Experience:** Over 10 years as a Certified Pharmacy Technician, providing comprehensive support in inpatient pharmacy, IV room, and clean room environments.
- **Compounding Expertise:** 8+ years in sterile compounding and IV preparation, including 7+ years handling hazardous drugs with adherence to strict safety and regulatory protocols.
- **Clinical Systems Proficiency:** Skilled in EPIC Hyperspace, Cerner, and Pyxis systems for efficient data management, inventory control, and operational support in clinical settings.
- **Certified & Trained:** PTCB Certified and trained in USP <797> and <800> compliance, clean room protocols, PPE garbing, and aseptic techniques.
- **Clinical Data Management:** Extensive experience managing clinical datasets, ensuring quality control, data integrity, and compliance with healthcare regulations.
- **Record-Keeping & Data Management:** Experienced in maintaining accurate records and databases, including data entry, BUD guidelines, and quality control.
- **Inventory Management:** Skilled in medication inventory control, including medication refill processes and management of narcotics in compliance with regulatory standards.
- **Regulatory Knowledge:** Familiar with HIPAA, ICH/GCP guidelines, and Human Subjects Protection.
- **Administrative Skills:** Proficient in Microsoft Office (Word, Excel, PowerPoint) and specialized tools such as Talyst, Simplifi 797, Baxa Compounder, and Abacus calculations for workflow optimization.

Work Experience

VCU Health Systems

Senior Certified Pharmacy Technician III | April 2015 – Present

- Led and managed all CPhT roles within the inpatient pharmacy over 10 years, demonstrating leadership in diverse responsibilities.
- Developed and implemented policy changes in alignment with evolving guidelines to enhance operational procedures.
- Applied extensive experience in IV room protocols, ensuring adherence to PPE standards and maintaining a sterile environment.
- Utilized and optimized the functionality of Cerner, EPIC, and Pyxis systems through targeted training and practical application.
- Executed complex drug compounding and batching processes, ensuring accuracy and efficiency.
- Specialized in the compounding of hazardous, chemotherapy, and investigational drugs, maintaining compliance with regulatory standards.
- Prepared total parenteral nutrition (TPN) with precision, adhering to stringent safety and quality standards.
- Facilitated effective communication and collaboration with nursing and provider staff to support patient care.
- Collaborated directly with pharmacists across multiple satellite pharmacy locations to ensure seamless medication management.
- Administered narcotic vault procedures and managed inventory to ensure secure handling and accurate record-keeping.
- Instructed and mentored new staff members, fostering their development and integration into pharmacy roles.
- Adapted to staffing needs by covering additional shifts, demonstrating flexibility and commitment to team success.
- Enforced safety protocols and ensured strict adherence to HIPAA guidelines to maintain patient confidentiality and compliance.
- Operated efficiently in high-pressure environments, particularly on critical care floors, to support patient care and safety.

Walgreens

Certified Pharmacy Technician | February 2013 – April 2015

- Delivered exemplary customer care to patients, ensuring a supportive and informative pharmacy experience.
- Supported pharmacists in a range of tasks to streamline workflow and maintain operational efficiency.
- Designed and implemented work schedules for pharmacy technicians, optimizing team productivity.
- Instructed and oriented new employees according to standard procedures, enhancing team competence and consistency.
- Compounded and prepared medications and prescriptions with accuracy, adhering to all safety and quality standards.
- Structured and coordinated daily workflow within the pharmacy, promoting organization and efficiency.
- Managed pharmaceutical claims and processed third-party rejections promptly, ensuring accuracy in patient records and billing.

Keener Communications

Lead Call Center Operator March 2010 – January 2013

- Partnered with multiple healthcare organizations to provide comprehensive call center support services.
- Delivered high-quality customer service by receiving and conveying messages professionally and efficiently.
- Trained insurance agents in navigation and usage of the America's Health Insurance Plans website, enhancing their competency.

- Educated new operators on call center protocols, contributing to a consistent and professional customer experience.
- Consistently achieved high scores in customer service metrics, recognized in call center award programs for service excellence.

Projects & Research Experience

Personal Resume Website: *My Website* | 2025

- Built a website used as a one-stop HUB for potential employers seeking information on me and my experiences.
- Utilized Docker, PHP, CSS, HTML, JavaScript, Container Applications, and other various libraries.
- Has my resume available for download, list of Skills and Projects, links to my LinkedIn and GitHub and a section to message me.

Bioinformatics Capstone Project: *Change in Performance Metrics of NFL Players due to COVID-19* | 2025

- Conducted comprehensive clinical data analysis using statistical modeling techniques (LMM, PCA).
- Ensured rigorous data validation and integrity in dataset compilation and interpretation.
- Clearly documented processes and results, highlighting key findings for clinical research audiences.

Medication Adherence Application: *A web-based application project for maintaining medication records* | 2025

- Developed a responsive application focused on data accuracy, patient tracking, and feedback management.
- Implemented secure data handling practices using Firebase for authentication and data management.
- Created comprehensive user documentation and training resources.

Inpatient Pharmacy IV Room Relocation Project | 2024

- Directed the redesign and workflow optimization for the relocation of the pharmacy IV room.
- Implemented efficient sterile compounding processes and protocols.
- Led extensive staff training on advanced compounding techniques, ensuring compliance with safety and regulatory standards.

Inpatient Medication Return Operations | 2016

- Designed and executed significant enhancements to the medication return system.
 - Improved workflow, reducing medication return processing time by 25%.
 - Provided staff training, documentation, and implementation support.
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Certifications and Training

- Certified Pharmacy Technician (CPhT) – PTCB
- USP <797>/<800> Compliance & Aseptic Technique
- HIPAA & Human Subjects Research Training
- Advanced Sterile Compounding & PPE Garbing
- OSHA Environmental Health & Safety (In Progress)

References

- Phillip Gray, PharmD – Inpatient Pharmacy Manager/Supervisor – (804)894-2958
phillip.gray@vcuhealth.org
- Dr. Brian Verrelli, Ph. D – Center for Biological Data Science, Virginia Commonwealth University –
bverrelli@vcu.edu
- Chelsea Ambrose, PharmD – Pharmacy IV Room Coordinator – (804)502-5460
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- Kristell Wright-Jimenez, PharmD – Pharmacy Quality Assurance Pharmacist – (804)252-7701
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