

Wolfie Seawolf

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EDUCATION

Stony Brook University

Stony Brook, New York

Master of Science in Computer Science | GPA: 3.0+

Expected Graduation: Month 202X

Relevant Coursework: System Security, Data Science, Advancements in Artificial Intelligence, Natural Language Processing, Machine Learning

Honors/Scholarships/Awards: Dean’s Fellowship | Excellence in Research Award

Undergraduate University

Town, State

Bachelor of Science in Computer Science | GPA: 3.0+

Start Month 202X – End Month 202X

Relevant Coursework: Computer Networks, Data Structures, Python Programming, Object Oriented Programming

Honors/Scholarships/Awards: Dean’s List 4 Semesters | University Scholars

TECHNICAL SKILLS *(include any other categories that match your skill set & years of experience)*

Programming Languages: 6 years - Python, SQL, PostgreSQL, Java, HTML, XML; 2 years - C, Google AppScript; 1 year - C++, JavaScript, ReactJs, Rust

Operating Systems: 8 years - Windows; 4 years - Linux, Kali Linux, Ubuntu

Cloud Systems: 2 years - Amazon Web Services (Lambda, S3, CloudWatch, SageMaker), Google Project, Google APIs

Certifications: Cisco Certified Network Associate Routing and Switching (April, 2024), Python for Everybody - University of Michigan (July, 2023) *(include any certifications that are relevant: month, year)*

PROFESSIONAL EXPERIENCE *(organize categories according to relevance of the position you are applying for)*

AutoSci Innovations

Town, State

Software Developer

Start Month 202X – Present

- **Skill based bullet #1 (Example: Action verb + quantify task + skill/technologies + result/outcome)**
- Deployed and optimized a yield prediction model using AWS SageMaker, Pandas, NumPy, and Spark, increasing production quality by 15% and reducing defects.
- Trained 4 interns and 3 non-developers on Automation Anywhere and SQL, improving automation skills across teams and enhancing business flow efficiency by 30%.

GlobalFoundries

Town, State

Data Systems and Automation Analyst

Start Month 202X – End Month 202X

- Engineered and executed over 20+ automations using Automation Anywhere A360, reducing operational processes time and improving performance.
- Led a major multi-faceted project with 10 sub-projects named “RPA-Driven Semiconductor Reporting Automation”, showcasing leadership and technical acumen, leading to an estimated \$200K in annual cost savings.
- Developed Python scripts for automation to augment RPA functionalities, and provided support for Java-based applications, demonstrating cross-technology expertise.
- Collaborated with international stakeholders as part of a 5-member data science team, using Python for data manipulation and advanced analytics to streamline production workflows and improve operational efficiency.

ACADEMIC RESEARCH & PROJECTS

Stony Brook University: File System Laboratory (FSL) | Principal Investigator Erez Zadok

Stony Brook, New York

Long term secure archival systems

Start Month 202X – Present

- **Skill based bullet #1 (Example: Action verb + quantify task + skill/technologies + result/outcome)**
- Investigating data integrity techniques in archival systems, focusing on secure integrity verification mechanisms that ensure long-term preservation of data.

- Learning Phase: Gained deep expertise in Shamir's Secret Sharing (SSS), Proactive Secret Sharing (PSS) and Verifiable Secret Sharing (VSS). Explored Commitment Schemes to support cryptographic integrity in distributed systems.
- Implementation Phase: Implemented cryptographic protocols, SSS, PSS, and VSS, in Rust using libraries ark-ff for finite fields and tonic for secure gRPC services. Developed a leakage-resilient secret sharing scheme to improve the robustness of archival systems against partial leakage of information.
- Published a paper at the Association for Computing Machinery (ACM) workshop: Hot Topics in Storage and File Systems (July, 2024).

INDEPENDENT PROJECTS

Enhanced Medical Question Answering System

Start Month 202X – End Month 202X

Technologies: Python, NLP, LLMs, CUDA, Performance Evaluation, Retrieval Augmented Generation

- **Skill based bullet #1 (Example: Action verb + quantify task + skill/technologies + result/outcome)**
- Developed a Retrieval Augmented Generation model using the MedQuAD dataset and Gemma LLM.
- Utilized embeddings TF-IDF, BERT, and Sentence Transformers.
- Achieved 15% improvement in answer relevance, with a 12% BLEU and 18% ROUGE-L F1 score enhancement.
- Enhanced contextual accuracy by 25% through prompt engineering and data chunk optimization.

Microchip Acceptance Prediction Using Regularized Logistic Regression

Start Month 202X – End Month 202X

Technologies: Python, Deep Learning, Data Visualization, Feature Mapping, Regularization, Evaluation

- Built a logistic regression model to predict microchip acceptance with 92% accuracy by employing feature mapping and regularization to prevent overfitting.
- Optimized the model using gradient descent and hyperparameter tuning for regularization parameter λ .
- Implemented cross-validation techniques for robust model performance and generalization across datasets.

LEADERSHIP EXPERIENCE

Stony Brook University

Stony Brook, New York

Java Programming Teaching Assistant

Start Month 202X – End Month 202X

- Led lab and recitation sessions for 160 students, focusing on Java, data structures, and OOP.
- Collaborated with faculty and fellow TAs to design assignments, quizzes, and exams, provide one-on-one student support, and enhance course materials to reinforce programming concepts and improve student engagement.

Stony Brook University

Stony Brook, New York

Secretary, Society for Industrial and Applied Mathematics

Start Month 202X – End Month 202X

- Led weekly research paper reading sessions to encourage academic discussions among 50+ members.
- Organized and distributed weekly meeting notes, while ensuring timely reminders on upcoming discussion topics.

PUBLICATIONS & RECOGNITIONS

Publication: *(Add citation example)* Christopher Smith, Maliha Tabassum, Soumya Chowdary Daruru, Gaurav Kulhare, Arvin Wang, Ethan L. Miller, and Erez Zadok. 2024. Secure Archival is Hard... Really Hard. In Proceedings of the 16th ACM workshop on Hot Topics in Storage and File Systems (HotStorage '24). Association for Computing Machinery, New York, NY, USA, 38–46.

Fellowship: University Innovation Fellow, Stanford University (August, 2023 - Current)

Hackathons: Automation Anywhere Bot Games Award Winner (May, 2022)

Awards: *(Add awards not affiliated with the university here)* GlobalFoundries: Team Recognition Award (June, 2024)