# Joseph Kiezulas

jkiezulas@gatech.edu | (207) 251-7529 | linkedin.com/in/joseph-kiezulas | U.S. & Moldovan Citizen

## Education

**Georgia Institute of Technology**, BS in Computer Science                                             Exp. May 2026
- Concentration: Artificial Intelligence & Information Internetworks
- Coursework: Deep Learning, Machine Learning, Information Security, Artificial Intelligence

## Projects

**Domain Generalization on small models | Pytorch/Deep Learning**
- Proposed and implemented methods for improving small-network robustness to unseen domains through lightweight invariance regularization and adversarial domain synthesis.
- Benchmarked models on PACS, Office-Home, and VLCS datasets to analyze domain shift resilience; compared with SOTA methods such as MixStyle and NormAug.

**Consumer Purchase Behavior Analysis | ML/Python**
- Analyzed customer purchase behavior using a comprehensive dataset and achieved a 94% accuracy rate with a random forests predictive model. Also experimented with other models including logistic regression and gradient boosting machine to forecast purchase decisions.

**Application Security Research and Exploitation Project | Python**
- Demonstrated cryptographic attacks (length-extension, hash collisions, chosen ciphertext, RSA padding) to forge digital signatures.
- Crafted buffer overflows and ROP chains for control-flow hijacking.
- Performed web app exploits including SQLi, XSS, and CSRF to assess security risks.

**Intelligent Music Recommendation & Analysis Platform | Java**
- Engineered an AI-powered platform to provide real-time song recommendations and taste analysis
- Analyzed metadata and auditory features from users' listening histories via Spotify's Web API. Integrated Spotify and Firebase authentication systems to enable seamless cross-device access, with persistent cloud storage of user profiles and listening histories using Firestore.

## Experience

**Full Stack Software Engineer**, Freelance – Kennebunk, ME                                       May 2025 – Aug 2025
- Designed and deployed a cross-platform workforce management app with Flutter and Firebase supporting 15–20 employees, featuring role-based dashboards, dynamic pay-scale automation, and seamless mileage/receipt logging
- Configured a WordPress website with HostGator, managing DNS, name servers setup, and domain hosting best practices

**Agile Communication Architectures**, Undergraduate Researcher – Atlanta, GA                   Aug 2024 – Present
- Georgia Tech VIP program focused on multi-modal analysis of IQ samples, PSDs, and spectrograms and applying deep learning techniques for anomaly detection in OFDM-based SDR, led by Dr. Matthieu Bloch (PhD). Will be competing in the Air Force Research Laboratory Software Design Radio Challenge.

**Cape Arundel Golf Club**, Maintenance Worker – Kennebunk, ME                                   May 2025 – Aug 2025
- Performed high-end course maintenance at a private golf club, ensuring tournament-level turf quality and landscape aesthetics.
- Operated heavy machinery and specialized turf equipment (mowers, aerators, utility vehicles) for precision course upkeep and large-scale projects.

## Extracurriculars

**Georgia Tech Basketball Scout Team**                                                           June 2024 – Present
- Selected to support Women's Division I team practices by providing live competition in training sessions
- Balancing athletic commitment with full academic workload

**Georgia Tech IOS Club**                                                                     Fall 2023 – Spring 2024
- Built "ThoughtBank" project in Swift + Firebase using protocol-oriented design.

**Georgia Tech Greyhat Club**                                                                 Fall 2023 – Spring 2024
- Practiced cybersecurity skills: exploitation, defense, and basic reverse engineering.

## Skills

**Languages:** Python, Java, C/C++, Swift, Dart, JavaScript, SQL
**Frameworks/Tools:** Flutter, Firebase, Android Studio, Xcode, Git, SQLite, REST APIs, WordPress
**Data/ML:** scikit-learn, NumPy, pandas, PyTorch, HTML/CSS, Node.js