Zachery Linscott

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EDUCATION

Southern Illinois University Edwardsville   December 2024
Computer Science BSc, Minor in Mathematical Studies   *GPA 3.87*

RELEVANT COURSEWORK

Mobile Applications Development	Databases and Web Development	Statistics for Applications
Systems Prog. & Operating Systems	Computing in Healthcare	Linear Algebra
Algorithms & Data Structures	Calculus I, II, III	Discrete Structures

PROFESSIONAL EXPERIENCE

Virtual Reality Developer / Research Fellow   **08/2024 – Current**
Center for Crime Science and Violence Prevention   *Belleville, IL*

- Designing virtual reality simulations to equip law enforcement and emergency medical professionals for emergency situations, by means of creating point clouds through LiDAR and other technologies.
- Leveraging the capabilities of the Meta Quest 3 and its Meta XR SDK, along with the Oculus XR plugin in the Unity 3D Engine.

Mobile Applications Development Intern   **05/2024 – 07/2024**
Cru   *Orlando, FL*

- Assessed Kotlin Multiplatform (KMP) and Compose Multiplatform for potential cross-platform mobile applications development at Cru.
- Collaborated with an intern to design and prototype a Christian discipleship app using the MVVM pattern for the mobile team and stakeholders.
- Implemented MongoDB Atlas Device SDK (Realm) and Device Sync for authentication and database management and used Ktor for API calls to Cru's KnowGod.com to populate app data.

Computer Science Teaching Assistant   **04/2020 - 12/2021**
Illinois Institute of Technology   *Chicago, IL*

- Taught students fundamental object-oriented programming, algorithms, and data structures concepts with Java.
- Hosted office hours for students in need of help and ran computer science laboratories for multiple classes.
- Graded student lab and project assignments.

PROJECTS / RESEARCH

Multi-trait Genomic Prediction Models on Maize (In Progress)

- Creating Bayesian multi-trait genomic prediction models on maize using R as an URCA research assistant.
- Researching under Dr. Carolyn Wilmsmeyer-Butts, the Director of the Center for Predictive Analytics at SIUe.

Undergraduate AI Research for T-cell and Lymphoblast DNA Accessibility

- Improved ATAC-seq data preprocessing with bedtools, GRCh38 genome, Python, and bash scripts.
- Curated datasets for binary classification to distinguish accessible vs. inaccessible chromatin regions in T-cells and lymphoblasts.
- Assessed AlexNet and Network in Network CNNs to identify the best model, providing insights for future deep learning architecture.

SKILLS

Python - PyTorch, NumPy, Django, BS4	Kotlin – Cross-platform mobile dev.	JavaScript – Nuxt, Vue, Node
Java – Android Studio mobile dev.	C# - Unity, VR, and game dev.	Bash, Zsh – Scripting, routine use
Teaching – OOP and algorithms concepts	R – Statistics, research	Linux – Daily OS, cloud