

# Andrew Louis

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## SUMMARY

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Detail-oriented Computer Science graduate student with strong experience in software development and technical support. Skilled in problem-solving, scripting, and communicating technical information clearly. Passionate about building efficient software solutions and contributing to cross-functional engineering teams.

## SKILLS

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**Languages:** Java, Python, C, C#, JavaScript, HTML, SQL

**Developer Tools:** Node.js, Active Directory, Database Systems, Git, Python Flask, Google Cloud Platform, Chart.js, Replit, Processing, Spyder

**Libraries:** Processing, Matplotlib, NumPy, Gson

**Soft Skills:** Communication, Leadership, Teamwork, Adaptability, Creativity

## WORK EXPERIENCE

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### Kean University

Union, NJ

Desktop Support Technician

Feb. 2024 – Present

- Coordinating with desktop support, networking, and security to execute the university-wide migration of 3,000+ Kean-issued devices to Windows 11
- Resolved 500+ hardware, software, and account-related issues, ensuring reliable operations across student labs and staff systems.
- Developed and maintained PowerShell scripts to automate routine tasks, improving team efficiency and reducing manual workload.
- Troubleshoot and validated Group Policy deployments, helping maintain secure and consistent system configurations.
- Created clear documentation and followed escalation procedures to ensure effective communication across the IT team.

## PROJECTS AND PROGRAMS

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### Pixel RGB Analyzer | SQL, JavaScript, HTML/CSS, Chart.js

- Built a web tool that extracts and visualizes pixel-level RGB data from user-uploaded images.
- Used Canvas API for efficient pixel data parsing and Chart.js for dynamic data visualization.
- Implemented SQL storage to support timestamped analysis and historical comparisons.

### PL Score – Premier League Match Predictor | Java, Kotlin, API-Football, REST API, Android Studio

- Developed an Android app that predicts match outcomes using real-time player and team statistics.
- Implemented a prediction algorithm incorporating player performance metrics and historical match data.
- Integrated API-Football to retrieve and preprocess live season data for accurate analysis.

### KeanCommute – Smart Navigation for Kean University | Python, JavaScript, HTML, Node.js, MapBox, TomTom

- Collaborated in a team of 3 to build a web application that calculates the fastest commute route to campus.
- Leveraged TomTom's Traffic Flow and Routing APIs to incorporate real-time traffic insights.
- Used MapBox to provide an interactive and responsive map interface.

### Group Summer Scholars Research Program | Python, Google Colab

Jul. 2020 – Aug. 2020

- Participated in a research program focusing on Machine Learning, Scientific Visualization, and Cancer Biology.
- Used Google Colab to collaborate and develop data-driven models for scientific analysis.

## EDUCATION AND AWARDS

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### Kean University - M.S in Computer Science

Union, NJ

GPA: 3.86 | Dean's List

Expected graduation: May 2027

**Relevant Coursework:** Data Structures, Analysis of Algorithms, Systems Programming, Operating Systems, Database Management Systems

**Extracurriculars:** Men's Soccer