YOUSSEF CHEKKORI

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SUMMARY

Versatile and results-driven student with experience in full-stack engineering, AI prompt engineering, UI/UX design, and data analytics. Skilled in building scalable applications, integrating AI systems using context-aware prompt pipelines, and automating real-world workflows.

EDUCATION & CERTIFICATIONS

BA in Computer Science, Data Science, Graphic Design - Augustana College

Expected Graduation: May 2027

- OpenAI / DeepLearning.AI – ChatGPT Prompt Engineering for Developers (2024)
- Google Cloud – Generative AI Fundamentals (2024)
- AWS Skill Builder – Cloud Practitioner Essentials (Completed Training – 2024)
- Google Cloud Skills Boost – Digital Cloud Leader Training (In Progress – 2024)
- LinkedIn Learning – Git & GitHub for Developers (2024)
- LinkedIn Learning – Statistical Analysis with Excel (2024)

TECHNICAL SKILLS AND LANGUAGES

Languages: Python, JavaScript, TypeScript, SQL, Java

Web Development: HTML, CSS, React.js, Node.js, Express.js, MongoDB (MERN)

Frameworks & Libraries: Pandas, Beautiful Soup, Selenium, Treant.js, JavaFX, Gemini API

ML/AI/Prompt Engineering: Scikit-Learn, XGBoost, Pandas, NumPy, Gemini API, few-shot prompting, context chaining, modular template design

Data Analytics & Visualization: Excel (Forecasting, Regression), Tableau, Power BI, SQL, Matplotlib, Seaborn

Automation & DevOps: Google Apps Script, Git, Postman, cPanel

Cloud Tools: AWS (Cloud Practitioner), Google Cloud

Design Tools: Figma, Photoshop, Illustrator, InDesign

Soft Skills: Agile, Strategic Planning, Team Leadership, French, Arabic

Coursework: OOP, Data Structures & Algorithms, Software Engineering, Databases, Linux, AI

PROFESSIONAL EXPERIENCE

Tech Lead / Software Engineering Intern – EDGE Center, Augustana College - Summer 2025
- Pitched and led development of the AI Learning Assistant, an interactive roadmap platform using MERN stack and Treant.js.
- Integrated Gemini API with modular prompt engineering techniques to create a context-aware assistant that helps students with coding, writing, and design tasks.
- Built backend with Express.js and MongoDB, enabling user-specific video capsule delivery and learning progress tracking.
- Developed secure Google OAuth authentication and managed a team of interns using Agile methodologies.
- Filled in for project managers, overseeing task management, code reviews, and intern mentorship.

Software Developer – Closet2Closet (Nonprofit via EDGE) - Summer 2025
- Automated foster care package request system using Google Apps Script, replacing a manual workflow and reducing fulfillment prep time by 70%.
- Created backend logic to process Google Forms, generate slips, and organize logistic queues for volunteers.

Web Developer – Web Guild, Augustana College - Sept 2024 – Present
- Maintain and enhance over 250 live client websites using HTML/CSS, with performance hosting via cPanel.
- Translated 50+ client requests into production-ready websites using Figma and Adobe Suite, cutting delivery time by 30%
- Improve delivery time and site quality through streamlined client feedback loops and proactive UI redesigns.

PROJECTS

F1 Podium Probability Predictor | Machine Learning Engineering
- Developed end-to-end machine learning pipeline predicting Lewis Hamilton's podium probabilities using historical F1 data and real-time qualifying results
- Engineered features including qualifying position, circuit performance history, recent form trends, and race-to-race momentum analysis
- Implemented multiple ML models (Logistic Regression, Random Forest, XGBoost) with Logistic Regression achieving 84.21% accuracy and 0.869 ROC AUC
- Built automated data collection system using FastF1 API, processing 5 seasons of historical race data for model training and validation
- Created real-time probability forecasting engine with production-ready deployment and interactive visualization dashboards

AI Learning Assistant Dashboard (Ongoing)
- Built with MERN stack and Treant.js; delivers video capsules in a roadmap UI tailored to each user's learning progress.
- Engineered Gemini AI integration with smart prompt templates based on internal content, enabling adaptive assistant responses.
- Managed user authentication (OAuth), backend CRUD APIs, and state tracking in MongoDB.

Educational HAM Radio Simulator
- JavaFX-based simulator for Morse code training with AI-generated practice scenarios and multiplayer support.
- Features include real-time server comms, frequency tuning, scenario builder, and JSON-based save/load logic.

Product Recommender App
- Built a GUI app using Python, Selenium, Beautiful Soup, and kivyMD to scrape Amazon and generate ranked product CSVs.
- Parsed reviews, ratings, and pricing for consumer product research.

LEADERSHIP AND AWARD

EDGE Center - Mock Company Marketing Project | May-Aug 2024

- Led creative and technical team to deliver branding, logos, website, and marketing materials. Won 3 awards including Best Overall Marketing Framework.