

Krishna Bhatnagar

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EDUCATION

Georgia State University

B.S. in Computer Science

Atlanta, Georgia

Expected Graduation, May 2027

- **Concentrations:** Artificial Intelligence And Machine Learning
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

EXPERIENCE

Victory Financial Consulting Pvt. Ltd.

ios Developer Intern

On-site, India

May 2025 – Present

- **Developed** and deployed production-ready iOS application using Swift, SwiftUI, and Xcode for home loan processing platform, implementing secure **RESTful API integration with Node.js backend**, OAuth authentication, and real-time data synchronization serving **1000+ potential users**
- **Built** comprehensive financial services mobile app featuring advanced EMI calculator with reducing balance algorithms, multi-step loan application workflow, document upload system with cloud storage integration, and partner bank carousel displaying all major financial institutions
- **Implemented** enterprise-level security and compliance features including **HTTPS/TLS encryption**, Keychain integration for secure token storage, App Store Connect configuration with privacy policy compliance, background processing capabilities, and MSG91 OTP authentication system meeting banking industry standards and **published on app store**.

Ducat Education Pvt. Ltd.

Android Development & Data Structures Intern

Gurugram, India

Feb 2024 – Aug 2024

- Built **2 Android apps** in **Java/Kotlin** using **MVVM architecture**, Retrofit API integration, and **Firebase (Auth, Firestore, Cloud Messaging)**.
- Refactored critical modules with design-pattern best practices, **reducing ANR incidents by 40 %** and boosting frame-render performance by 25 % on low-end devices.
- Implemented custom UI components and motion layouts, enhancing accessibility and **cutting new-screen development time by 30 %**.

PROJECTS

MetaboIX – AI-Driven Metabolite Analysis for Predictive Healthcare

HackPrinceton, Founder & Full-Stack Engineer

Princeton University, New Jersey

Mar 2025- Present

- **Trained** disease-risk models to 97.2 % accuracy in a **10-week build using** TensorFlow, XGBoost, and Scikit-learn on 20,000 clinical metabolite samples, **making** early detection of Alzheimer's and cancer possible from 49 biomarkers.
- **Generated** top-10 personalized medication plans in **under 2 sec per query using** GPT-4 NLP, Flask REST APIs, and Dockerized microservices, **making** explainable prescriptions with side-effect and organ-efficacy scores accessible to clinicians.
- **Deployed** a HIPAA-compliant digital-twin dashboard in **cloud microservices using** Chart.js, SSL/TLS, flask-login, and Kubernetes, **making** interactive “what-if” health simulations available to patients and Kubernetes, **making** interactive “what-if” health simulations available to patients and doctors with 99.9 % uptime.

NutriLens AR – AI-Powered Augmented-Reality Nutrition Assistant

Lead Developer

Atlanta , Georgia

January 2025-March2025

- **Built** a hands-free AR nutrition scanner in a **36-hour hackathon using** Snap Spectacles, Lens Studio RemoteServiceModule, GPT-4, and Node.js WebSockets, **making** real-time calorie & macro breakdowns appear and speak inside the lens with < 200 ms latency.
- **Engineered** a low-latency cloud pipeline in **live demos using** a Heroku-hosted WebSocket server, MongoDB Atlas, and asynchronous GPT-4 calls, **making** bi-directional nutrition insights sync instantly to a web dashboard and iOS app.
- **Delivered** adaptive diet coaching in **every session using** GPT-4 nutrition models tied to user BMI, allergy, and fitness-goal profiles, **making** manual food logging obsolete through personalized recommendations and historical analytics.

TECHNICAL CERTIFICATIONS

MIT xPRO Professional Certificate in AI & ML (supervised, unsupervised & deep learning workflows), **The Complete Web Development Bootcamp** (HTML/CSS, JavaScript ES6, React, Node, PostgreSQL, Web3/DApps), **100 Days of Code – Python Pro Bootcamp** (Python automation, data science, Flask, game dev), **CS50: Introduction to AI with Python** (search algorithms, optimization, neural networks), **Ducat Android Development Program** (Java/Kotlin, Android SDK, RESTful APIs)

SKILLS

Programming And Web: Python, JavaScript/TypeScript , Swift/SwiftUI , C++ , Java , SQL , Bash , HTML5/CSS3 , React ,Next.js Node.js/Express ,Flask , FastAPI ,REST & GraphQL APIs, WebSockets , Tailwind CSS , Responsive & PWA Design

AI/ML, MLOps & Tools: TensorFlow , PyTorch , scikit-learn , Keras , NumPy , Pandas , SciPy , Hugging Face , CNNs (ResNet, EfficientNet) , RNNs (LSTM, GRU) , Transformers , XGBoost , MLflow , Docker , Kubernetes , CI/CD , TensorFlow Serving , TorchServe , A/B Testing , Hyperparameter Tuning , Feature Engineering , Git/GitHub , Unit Testing

Cloud, AR, & Databases:AWS (EC2, S3, Lambda, RDS, IAM) , GCP (Cloud Run, Firestore, BigQuery) , Heroku , PostgreSQL , MySQL , MongoDB Atlas , Firebase (Realtime DB/Firestore) , Redis , Data Structures , Snap Lens Studio , ARKit/ARCore , iOS (Xcode, SwiftUI)