

VIR BHATIA

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Tufts University: B.S. Computer Science | B.S. Cognitive & Brain Science

Relevant coursework: Data Structures, Machine Structure & Programming, OOP & Graphical User Interfaces, Linear Algebra, Algorithms, Human-Computer Interaction, Special Topics - Computer Vision, Programming Languages, Computation Theory

PROGRAMMING LANGUAGES	SOFTWARE PACKAGES	NOTABLE FRAMEWORKS	CLOUD COMPUTING
• C • C++ • Java • JavaScript • Python • Swift	• Insomnia • Jamovi • Matlab • MySQL Workbench • Postman • Splunk	• Bcrypt • Bootstrap • CORS • Node • React • SwiftUI	• AWS Amplify • AWS Elastic Beanstalk • AWS EC2 • AWS RDS • GCP Cloud Run • GCP Compute Engine • GCP Cloud SQL

PROFESSIONAL EXPERIENCE

Capgemini - AIG Insurance Group Captive - Software Engineer I

Sep 2025 - Present

- Designed and maintained structured data extraction pipelines for unstructured insurance documents into normalized datasets for downstream analytics and underwriting workflows.
- Built and deployed full-stack enhancements for AIG's Group Captive insurance platform, supporting underwriting, rating, quoting, and policy management workflows used across the captive insurance lifecycle.
- Performed root-cause analysis and debugging on application defects by reviewing server logs, testing API endpoints, and validating database transactions across multiple testing environments.

Human-Computer Interaction Lab, Tufts University - Research Assistant

Dec 2021 - May 2025

- Conducted experiments with 100+ participants using fNIRS and EEG to collect neurophysiological data during chess-based cognitive tasks, generating performance feedback based on measured cognitive states.
- Designed and implemented research databases to store, structure, and manage experimental data for analysis and longitudinal study.

SchoolHack.AI - Software Engineer Intern

Jun 2024 - Aug 2024

- Developed and evaluated an AI-driven educational tool (Essay Support & Plagiarism Checker), meeting defined functionality, accuracy, and performance benchmarks.
- Built over 10 modular plugins for the On-Demand platform, including API integration for *Spotify*, *Goal*, *Bloomberg*, etc. expanding platform capabilities and enhancing user experience.
- Authored comprehensive documentation for On-Demand's API plugin library, enabling streamlined onboarding and supporting continuous development workflows.

Avataar - Software Development Engineer Intern

May 2023 - Jul 2023

- Revitalized iOS AR *Incarnate* application by addressing user feedback on physical strain and scanning precision, streamlining front-end experience for faster and more reliable object capture.
- Contributed written content to Avataar community blog, communicating industry trends, product direction, and key technology features to both technical and non-technical audiences.

PROJECT EXPERIENCE

The-Loop (Bootstrap, Express, JWT, Node.js, React, Sequelize) - <https://www.loop-app.net/>

2025

Full-stack web blog built to help users share thoughtful written content. Contains user authentication, conditional rendering, post interaction flow, etc. Deployed using AWS Amplify, EC2 instance for backend, and RDS for database deployment.

GiftBerry (Bootstrap, Express, JWT, Node.js, React, Sequelize)

2024

Social media application that streamlines gift purchasing. Integration of online merchant APIs to provide suggestions and filtering of products by price/category/keyword/etc.

AffectiveMP3 (Affectiva, HTML, JS)

2023

Computer vision application leveraging Emotiv.ai Affectiva library to analyze facial expressions and determine user mood. Integrated mapping system to trigger real-time playback of mood-appropriate music from pre-calibrated MP3 track-lists.

Each of these and more can be found at <https://GitHub.com/Virb1010>