Chaithanya Heblikar

csh342@nau.edu | (928) 255-7438 | linkedin.com/in/csheblikar | github.com/csheblikar

EXPERIENCE

Northern Arizona University | Software Developer - Research (Unity, C#, Google Cloud API, Python)　　　**May 2024 - Present**
- Led a 4-member team to migrate SpokeIt from Swift (SpriteKit) to Unity, doubling device support while streamlining performance and feature integration.
- Integrated Google Cloud Speech-to-Text API into SpokeIt, enabling real-time word recognition across 5 mini-games, enhancing speech therapy for children with orofacial cleft palate.
- Implemented Unity Authentication with Google Play Games and Apple Game Center, enabling secure and seamless logins.
- Collaborated as part of a 7-member team to review 215 ASSETS papers, identifying six key dichotomies in gaming dynamics.
- Analyzed mobility data using interpolation and clustering, and mapped networks with Gephi and Google Earth to identify gaps and optimize broadband data collection.

SecqurAIse Technologies | Android Developer Intern (Java, Kotlin, XML, Room, Firebase)　　　**Aug 2022 - Dec 2022**
- Spearheaded PluxAI's SDLC from concept to release in 3 months, culminating in a successful publication on the Play Store.
- Developed a leave management page with MVVM, reducing approval processing time by 30%.
- Leveraged Firebase (Authentication, Cloud Firestore, Realtime Database) for real-time updates and secure user management.
- Utilized Room for efficient local data persistence, enabling offline-first functionality and efficient data management.

Hitachi Vantara | Project Intern (AWS, Datadog)　　　**Feb 2022 - Jul 2022**
- Worked with AWS fundamentals, including EC2, S3, IAM, and CloudWatch, to deploy and manage cloud-based applications.
- Monitored application performance and infrastructure health using Datadog, setting up dashboards, alerts, and logs for real-time observability and incident response.

PROJECTS

MovieFlix (Expo, React Native, TypeScript, Tailwind CSS)　　　**Apr 2025 - May 2025**
- Built a responsive movie discovery app using Expo, TypeScript, and Tailwind CSS, reduced page load time by 40% through UI optimization and component reuse.
- Designed a popularity algorithm using Appwrite to rank 500+ movies based on user engagement metrics (views, likes, watch time), enabling dynamic content surfacing and improved user retention.

Culturally Grounded Content Generation (Figma, Heuristic Evaluation, Accessibility Design)　　　**Jan 2023 - May 2023**
- Conducted heuristic analysis using Jakob Nielsen's principles to address 5 key usability issues such as chat navigation and system status visibility on AI platforms.
- Directed 16 user studies to design high-fidelity Figma prototypes, incorporating real-time collaboration, accessibility improvements, and intuitive feedback systems.

Healthful (Android, Java, XML, Google Maps API)　　　**Apr 2021 - Aug 2021**
- Built a health prediction Android app using Java and XML, implementing a rule-based symptom matching algorithm.
- Incorporated Google Maps API to display real-time hospital locations and designed an intuitive interface, achieving 80% user satisfaction.

SKILLS

- **Languages**: C#, Python, Java, Kotlin, C, C++, HTML, CSS, JavaScript, React, NodeJs
- **Frameworks & Libraries**: Jetpack Compose, Retrofit, NodeJS, Unity, YOLO, NumPy, Pandas, OpenMP, OpenMPI
- **Databases**: MySQL, MongoDB, Room, Firebase
- **Tools**: Git, Android Studio, Amazon Web Services (AWS), Rapid Miner
- **Functional**: Jira, Linear, Figma, Agile, Version control, Software Development Lifecycle (SDLC)

EDUCATION

Northern Arizona University, Flagstaff | Master of Science in Computer Science | GPA: 4.0/4.0　　　**Jan 2023 - Dec 2024**
- **Coursework**: Large Scale Data Structures, High Performance Computing, Parallel Programming, Human Computer Interaction
- **Teaching Assistant**: Data Structures, Web Technology and Game Development in Construct 3

Visvesvaraya Technological University | Bachelor of Engineering in Computer Science | GPA: 3.98/4.0　　　**Aug 2018 - Aug 2022**
- **Coursework**: Algorithms, Object-Oriented Programming, Database Systems, Mobile Application Development, UI Design
- **Honors**: Top Performer & Best Outgoing Student (Class of 2022)