ASHER BLOOM

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SUMMARY

UX-focused Software Engineer with expertise in UI/UX design, web development, mobile app development, and desktop applications. Proficient in building platform-agnostic, scalable digital experiences. Combines visual design principles, software engineering best practices, and user-centered design to deliver production-ready software. Strong in systems thinking, usability testing, and agile methodologies.

SKILLS

- **Languages**: Java, Python (Django), C++, C, C#, JavaScript (TypeScript, Node.js, Next.js, React, Vue.js, Express.js, Vite, Webpack, D3.js, Leaflet, jQuery, Ajax), Swift (SwiftUI, UIKit, AppKit), Dart (Flutter), PHP (CodeIgniter), HTML, CSS (Bootstrap, Tailwind CSS), Visual Basic .NET, Prolog
- **Data Tools**: Spark, Dask, MongoDB, PostgreSQL, Supabase, Firebase, Hadoop, MySQL, SQLite, Microsoft Access
- **Integrated Development Environments (IDEs)**: Xcode, JetBrains Developer Tools, Visual Studio Code, Android Studio, Microsoft Visual Studio
- **Development Tools & Workflow**: Git, GitHub, Docker, Amazon Web Services (AWS), Vercel, Travis CI, Coveralls
- **Operating Systems**: macOS, iOS, Windows, Android, Linux
- **Game Development**: Unity (C#), Godot (GDScript)
- **Graphics & Design**: Adobe Creative Cloud, Figma, Sketch, OpenGL, Pixelmator Pro, Canva, Final Cut Pro
- **Interests**: UI & UX, Web Development, Mobile and Desktop Applications Development, Game Development, VR & AR, Data Visualization

EXPERIENCE

Teaching Assistant – Human Computer Interaction   09/2025 - Present
New York University

- Assist Professor Nitesh Goyal in curriculum development, delivering engaging content, and clarifying complex concepts for 30+ students in HCI
- Facilitate prototyping and usability testing sessions, applying HCI principles to enhance hands-on learning and evaluate user-centered designs

Software Engineer – Research and Development (R&D)   09/2023 - 01/2024
Institute of Computing Technology, Chinese Academy of Sciences

- Built iOS apps in Swift (SwiftUI & UIKit), featuring intuitive UI designs and streamlined navigation to enhance internal mobile research tool usability
- Engineered modular, full-stack web applications using Node.js, Express.js, and Webpack, focusing on maintainable APIs and scalable architecture
- Created a responsive JavaScript-based To-Do List app for lab staff, ensuring cross-browser compatibility through adaptive layouts & input handling
- Developed high-performance, accessible front-end components in Vue.js, boosting render efficiency by 30% and achieving full WCAG compliance

PROJECTS

Personal Portfolio: Sleek, Responsive Developer Showcase with Modular Content Architecture and Thematic UI Design   03/2025 - Present

- Developed a modular, content-driven portfolio with Next.js, React, and Tailwind CSS, leveraging external JSON for dynamic content and scalability
- Built interactive features including animated page transitions, dark/light theme toggling, and a mobile-first, accessible UI with clear visual hierarchy

EmpireClock: A Cross-Platform SwiftUI Application for Real-Time Clock and IP-Based Location Display with Adaptive UI   05/2025 - 06/2025

- Built a SwiftUI app that displays a full-format clock and geolocates the user via public IP using ipapi.co, supporting both macOS and iOS platforms

SwiftResume: Modern Resume Builder With Real-Time Editor & Preview, Seamless Autosave, and Headless PDF Export   05/2025 - 06/2025

- Built a full-stack resume editor using React, Tailwind CSS, and Vite, featuring real-time sync to Supabase and encrypted authentication via bcrypt
- Developed a Node.js and Express backend that renders HTML/CSS resumes into polished PDFs using Puppeteer, with post-processing via pdf-lib

VocationalNYC: A Centralized Web App Connecting New Yorkers to Affordable, Career-Building Vocational Programs   01/2025 - 05/2025

- Built a full-stack web application with Python (Django) to help New Yorkers discover, compare, and access around 500 verified vocational courses
- Implemented authentication & profiles, course discovery (filters, card/map views), ratings & reviews, and chat via WebSockets & Django Channels
- Designed a bookmark system for students and a provider dashboard for managing course listings, including an admin-backed verification workflow
- Styled with Bootstrap, stored with PostgreSQL; deployed via Docker containers with CI/CD pipelines using Travis CI, Coveralls, and Git workflows

HarvestOps: A User-Centered iOS Solution Enhancing Modern Agricultural Operations Using Material Design Principles   09/2024 - 12/2024

- Built 3 research-based personas and conducted interviews to uncover pain points, prioritize key needs, and guide data-informed design decisions
- Created high-fidelity prototypes in Figma addressing core needs such as task management, real-time messaging, and interactive farm layout map
- Led 7 rounds of iterative usability testing, refining core flows & UI patterns to boost task completion efficiency by 40% and improve user satisfaction

InsightEd: Interactive Visualization Platform for Exploring Global Education Expenditure and Academic Performance   09/2024 - 12/2024

- Built a D3.js web app using CSV and GeoJSON datasets to visualize education spending and performance factors for educators and policymakers
- Created a world map visualization with scalable bubbles representing national education expenditures, dynamic tooltips, and zoom/pan interactivity

PharmChat: Telehealth App Streamlining Online Chat Consultations, Medication Management, and Digital Prescriptions   10/2022 - 08/2023

- Created a multi-user web app with PHP and MySQL, featuring a Bootstrap 5 UI and Ajax-powered asynchronous flows for a seamless experience
- Enabled real-time online consults for patients, digital prescription issuance by doctors, and streamlined user & medication management for admins
- Integrated healthcare & pharmacy services, improving oversight and minimizing the need for in-person clinic visits during the COVID-19 pandemic

EDUCATION

New York University   09/2024 - 05/2026
Master's in Computer Science, Cumulative GPA: 3.83/4.00, Honor: Graduate Merit-Based Scholarship

The National University of Malaysia   10/2020 - 07/2024
Bachelor of Computer Science with Honors, Cumulative GPA: 3.78/4.00, Honor: Dean's List