

# Hoodad Farhad

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Full-Stack Developer

## EDUCATION

**MSc** in Computer Science | University of Guelph

Sep 2022 - Sep 2024

- **Thesis:** Human-Computer Interaction | **GPA:** 3.94/4.00

**B.Sc.** in Software Engineering | IAUCTB University

Sep 2016 - Dec 2021

- **GPA:** 3.67/4.00

*Relevant Courses:* Mobile App Development (A+), Data Structures & Algorithms (A+), OOP (A+)

*Honors:* Top 3% of graduating class • 6x Dean's List recipient

## SKILLS SUMMARY

**Languages & Scripting:** JavaScript, TypeScript, Java, SQL, HTML, CSS, Bash

**Frameworks & Libraries:** React, Node.js, Next.js, Express, jQuery, Passport.js

**Databases:** PostgreSQL, MySQL

**Tools & Platforms:** AWS (EC2, RDS, S3, CloudFront, Certificate Manager), Git, GitHub, NGINX, Android Studio

## MAJOR PROJECT

**BudgetApp** / [Budgetapp.it.com](#) / [GitHub](#)

2025

React • Node.js • Express • PostgreSQL • AWS (EC2, RDS, S3, CloudFront) • Passport.js • OAuth2

- **Developed and deployed a full-stack budgeting web application**, enabling users to track income and expenses across multiple user-defined bank accounts, with full CRUD functionality and interactive data visualization.
- **Demonstrated fluency** in database design by normalizing a relational schema in PostgreSQL (AWS RDS) and supporting high-volume user transactions with referential integrity.
- **Deployed a scalable RESTful API server** using **Node.js + Express API server** on AWS EC2, handling 18 distinct endpoints with structured logging, and secure environment variable management.
- **Applied** core web principles by managing secure HTTPS requests with proper status codes, configuring SSL via AWS Certificate Manager, manipulating the DOM in React for dynamic rendering, and deploying the app on a custom domain through NGINX and CloudFront.
- **Separated frontend and backend** by hosting the React application on AWS S3 and CloudFront, improving site performance (Time-to-Interactive reduced by **60%**) and decreasing backend server load.

## RELEVANT WORK EXPERIENCE

**Web Developer and XAI Researcher** / [Collaborative Systems Lab](#) / Guelph ON

Sep 2022 - Dec 2024

- **Built** a React tool with live subtitle controls, boosting engagement by **45%** in a study with 18 users.
- **Integrated YouTube API** and **Node.js backend** to support 3 experimental conditions, enabling statistically significant results in comprehension scores (**p < .01**).
- **Designed** and conducted **A/B testing** across different subtitle designs to evaluate comprehension and engagement metrics, driving iterative improvements to user interaction.
- **Contributed** to **accessible technology** design by enabling subtitle control features and comprehension tracking for diverse user groups.

**Full-Stack Web Developer** / Segal Pardaz Sina

Jan 2019 – Sep 2020

- **Partnered** with cross-functional teams to develop a scalable enterprise-grade financial tracking web app using Next.js, Node.js, and TypeScript, supporting over 1,000 monthly active users.
- **Demonstrated** a strong passion for learning by continuously improving my React and Node.js skills, resulting in a responsive, mobile-compatible UI with real-time updates—and a **45% increase in user engagement** for the product I built.
- **Collaborated** on backend database architecture and APIs, improving data retrieval speed and supporting **up to 10,000 transactions/day**.

## TRAINING & CERTIFICATES

AWS Cloud Practitioner (expected: 2025), **Node.js Testing** (2025), Full-Stack Dev Bootcamp (2025), **Java SE (2020)**, Network+ (2018)