

# Carter Burzlaff

📞 (224) 523-3959 | ✉ cburz6@gmail.com | 🏠 Elgin, IL | 📺 CartierCodes | 🌐 cburzlaff

## EMPLOYMENT

---

### Amazon | Software Dev Engineering Intern (Seattle, WA) Feb 2023 – May 2023

- Developed and launched a new ad format, Interstitial Video Ads (IVA), for use on the Amazon website using **TypeScript** and **React**. IVA generates the highest conversion rate of any Amazon ad format
- Improved video render latency by dynamically adjusting video quality based on user connection speed, removing dependency on React from the client-side, and optimizing payload file size by isolating video data
- Successfully executed the 'Tenor' migration for all interstitial ads, which involved upgrading the existing ad rendering workflow, resulting in reduced load times when displaying images and videos

### Amazon | Software Dev Engineering Intern (Seattle, WA) June 2022 – Aug 2022

- Implemented full-screen image ad format displayed on the Amazon website with **TypeScript** and **React** while working alongside the ad technology team
- Designed a frame package to validate and then decorate ad payload before delivering it to be rendered, while ensuring compatibility with legacy payload structures
- Delivered render package capable of displaying the ad on any mobile format after receiving pre-processed payload from the frame

## EDUCATION

---

### Lewis University | Romeoville, IL Aug 2019 – Dec 2022

- B.S. in Computer Science (Concentration: Software Engineering) GPA: 3.89/4.0
- Minor: Data Science
- **Relevant Coursework:** Algorithms and Data Structures | Software Engineering | Object-Oriented Programming | Database Systems | Mobile App Development | Operating Systems | Programming for Data Analysis | Programming Languages | Artificial Intelligence | Machine Learning | Mathematical Modeling

## PERSONAL PROJECTS

---

### TossUp – CS:GO Companion (iOS + Android App) June 2020 – May 2021

- Published a dual-platform mobile app to assist users in popular video game Counter-Strike written in **Swift** for **iOS** and **Java/XML** for **Android**
- Offloaded content to a centralized **Firebase** db reducing the number of mandatory client-side app updates
- Utilized custom **Firebase** analytics to develop the most effective monetization strategy using **AdMob** ads
- Achieved **25,000** iOS downloads with no advertising campaign

### Steam Market Bot 🤖 May 2020 – July 2020

- Designed a **Node.js** bot that notifies the user via **Discord.js** API calls when a tracked item(s) drops below market value, allowing the user to purchase undervalued items on the digital market for a net gain of up to
- Monitored the active marketplace using **Puppeteer** and **Cheerio** to scrape custom item data

## TECHNICAL SKILLS

- 
- **Languages:** JavaScript, Typescript, Python, Java, Swift, HTML, CSS, SQL, XML, some C/C++
  - **Frameworks + Libraries:** Node.js, React.js, Express, Handlebars, Pandas, NumPy, MySQL, Bootstrap, Puppeteer, Cheerio
  - **Work Environments:** 8 member Agile scrum team utilizing git for version control

## ATHLETICS

---

### Division 1 Volleyball Player | Lewis University Aug 2019 – May 2022

- Developed timeliness, conflict resolution, and leadership skills to reach team and personal goals
- Committed 25+ hours per week to volleyball training while maintaining a full 18-hour course load and 3.89 GPA

### Interests:

- Tennis | Climbing | Volleyball | Clothing/Fashion | Strategy Games | Video Games