Nathaniel Koehler

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Education

Georgia Institute of Technology | Atlanta, GA — *Graduating December 2024*
Bachelor of Science in Computer Science, Senior 4th Year, GPA 4.00 — Faculty Honors, Dean's List

Experience

Tesla — *August 2023 – Present*
Software Engineer Intern — Fremont, California
- Programming **React.js Typescript** frontend to expand engineering tools across Tesla within the Apps & Tools team
- Wrote **Django** backend, **REST**ful APIs, & **Python** scripts for **5 Applications** to support 3 separate Tesla teams
- Led, designed & built a Python-backed **Kivy GUI** tool for the Metrology team related to vehicle surface quality

Comcast Corporation, Central Division — *May 2023 – August 2023*
Applications Development Intern — Atlanta, Georgia
- Developing the **Angular 2.0** web platform for 3 separate database audit tools with **TypeScript** & **Bootstrap**
- Utilizing **C# & .NET** to construct 15+ API endpoints & controllers to connect web platforms to **Azure SQL** databases
- Using **CI/CD DevOps** to develop new features for Angular & **ASP.NET Razor pages** over 14 weeks

Civic Digital Experience Inc. — *January 2023 – May 2023*
Software Engineer Intern — Atlanta, Georgia
- Building a **React.js** component library to reduce page development time & adhere to **Material Design Principles**
- Developing & maintaining 12+ website pages for an Administrator Panel within a 6-month client project
- Integrating & developing **API endpoints** to connect the **React.js** & **.NET application** with **Azure SQL Databases**

NCR Corporation — *May 2022 – August 2022*
Software Engineer & UI Design Intern — Atlanta, Georgia
- Led development of 2 **React.js** based interactive demos for the Aloha Cloud Platform on NCR's product pages
- Made 6 **Figma** UX docs & JS coding the order/payment flow of restaurant service for the Aloha Cloud POS demo
- Developed 3 pages for Retail Catalog UI within **React.js**, building the login/logout module, & **Postman API** testing

Projects

Pandamensional Chief Design Officer | React.js, **Golang, AWS** — *January 2023 – Present*
- Building out tech stack for a Fintech live-service tool suite with **AWS S3** + **EC2**; utilizing **Django** + Flask middleware
- Leading web design & deployment using a Figma & React.js frontend, constructing **API endpoints** in **Golang**

Slider Game Software Engineer | C#, **Unity**, Photoshop — *January 2022 – May 2023*
- Art/Design for Unity Engine game assets in **Slider, Independent Game Awards' Best Student Game of 2023**
- **C#** games programming within 3-week **agile-scrum** sprints & creating 10+ level & UI assets within Photoshop

Ireti VR Short Film Software Engineer | C#, **Unity AR/VR**, Autodesk Maya — *January 2021 – August 2021*
- Visual & UX design within VR team for 20+ DepthKit volumetric 3D environments in the production of a Unity film
- Editing models & animations through **Blender** & **Maya**, developing software plugins through **C#** for **Unity 3D**

Organizations

Georgia Tech Video Game Development (VGDev) | Unity Games Engineer — *August 2021 – Present*
Mentoring club members in **Unity 3D** & **C#**, working with developers in the Georgia Game Developers Association

GT Augmented Environments Lab | AR/VR Software Researcher — *January 2022 – January 2023*
- UI development with **Vue.js** & **AR/VR** User Experience design with Spoke, designing 3 virtual AR environments
- Collecting user feedback & **VR research** to tailor an interactive user experience, increasing retention by over 30%

Awards & Certifications

VGDev DeLeonic Award – Awarded for software/design on Slider (IGF 2023 **Best Student Game Winner**) – April 2022
HubSpot CRM Certification – Certification in HubL software development & the **HubSpot CRM** platform – June 2022

Skills

Platforms: **PostgreSQL**, AWS (S3, EC2, CloudFront), **Node.js**, Azure SQL, **SQLite**
Frameworks: React.js, **.NET**, ASP.NET, **Django**, Angular, Bootstrap, **ASP.NET**, Vue.js, **Flask**
Languages: Python, C#, C++, C, Java, JavaScript, **TypeScript,** HTML5 + SCSS, **SQL**, Chinese (Fluent)
Technologies: AI, REST API (Django + Flask), Docker, GitHub, Unity, **WordPress**, UE5, **Jira**, Confluence
Design: Adobe XD, **Figma**, FigJam, InDesign, Canva, Blender, **Photoshop**, Premiere, After Effects, Autodesk Maya