David Choo

CONTACT

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in david-choo

SKILLS

Languages

●●●●● C#

●●●●● .NET

●●●●● Typescript

●●●●● Python

●●●●○ C/C++

●●●●○ Java

●●●○○ x86

●●●○○ SystemVerilog

Technical

●●●●● Azure

●●●●● CosmosDB

●●●●● React/Redux

●●●●● Node

●●●●● Git

●●●●● Visual Studio

●●●●● VS Code

●●●●● Vim

●●●●○ GDB

●●●●○ LaTeX

EDUCATION

University of Illinois at Urbana-Champaign

B.S. Computer Engineering 2020

EXPERIENCE

Microsoft — **Aug. 2020 to Present**
Software Engineer II — New York, NY

— Modernize and lead feature delivery in Commercial Marketplace, driving a record $1B Marketplace Billed Sales in FY23, marking a remarkable 135% YoY increase
  - Drive improvements to product Pricing and Availability capabilities leveraging **Azure**, **C#**, **.NET**, and **Cosmos DB**
  - Lead test planning and execution for extending Cloud Solution Provider capabilities into new business offer types
  - Redesigned and refactored fast sync audience APIs to significantly reduce call times, resulting in more scenarios for independent software vendors to quickly update their products' audiences
  - Collaborated on co-development initiatives with partner teams to enable support for multiparty private offers through implementation of a new API contract

— Design and develop features for AppSource and co-sell storefronts using **Typescript** and **React**
  - Added transactability capabilities for Dynamics 365 CE and Power BI Visual product types, creating new revenue streams
  - Migrated Power BI Visual offers from legacy systems into modern commercial marketplace (Partner Center), streamlining product management processes
  - Managed Co-sell Solution Finder features and enhancements, enabling field sellers to efficiently identify appropriate market solutions for Microsoft partners

— Participate in on-call rotations to ensure 24/7 service reliability, targeting 1-hour time-to-mitigation to resolve issues impacting ISVs transacting with end customers

— Practice modern engineering principles, including CI/CD pipeline integration, robust telemetry and monitors, and comprehensive unit/integration/E2E testing

SimBioSys, Inc. — **May 2019 to May 2020**
Full Stack Developer — Champaign, IL

— Developed TumorScope, a web application using **Typescript**, **React**, and **Swagger** for oncologists to efficiently select effective neoadjuvant cancer treatments on a case-by-case basis

— Used data visualization tools, such as **Victory** charting components, to present predicted residual cancer burden and pathological complete response chance for a given treatment

— Designed treatment comparison tool enabling physicians to visualize a tumor's response to various treatments over time

Infineon Technologies — **May 2018 to Aug. 2018**
IC Research Intern — Tewksbury, MA

— Analyzed processes to decrease DPPM rates for IC chips

— Developed and tested Assertion based Verification strategies to increase coverage of testable analog signals

— Established and presented new methodology to efficiently insert analog defects using **C++** and **SystemVerilog**, thus facilitating measurements of controllability and observability