Alex Nguyen

AlexPHNguyen@gmail.com
github.com/dharmaturtle

EMPLOYMENT

Senior Software Engineer – Blocher Consulting   **2014 – Now**

- Develop software and orchestrate DevOps for clients using agile or waterfall methodologies
- Managed 5 interns and trained them to the point where they could bill clients
- Manage IT, e.g. IIS, Hyper-V, Active Directory, SSL certs, Cloudflare, Office 365, all Azure resources, etc.
- **Projects**   All projects used **C#, Entity Framework (Core), MSSQL**
  - ➤ **TheReversalClinic.com**   **F#, ASP.NET MVC 5, JavaScript**   **2019 – Now**
    - o Work remotely as Technical Lead on an inherited legacy website
    - o Migrated on-premises server to Azure with 0 downtime
    - o Augmented password security, migrated stored procedures to EF Core, fixed legacy bugs
    - o Added property-based tests, waitlist scheduling, automated refunds, and other features
    - o Exclusively manage DevOps and all Azure resources (e.g. App Insights, SQL VM, Virtual Network, etc.)
  - ➤ **Time tracker and payroll manager**   **React, TypeScript, ASP.NET Core MVC**   **2018 – Now**
    - o Project and Technical Lead of a team of 6. Conduct scrum ceremonies & performance/code reviews
    - o MVP released on time with only 2 bugs in first 3 months of use
    - o 71% test coverage
    - o Added Typewriter to automatically convert C# models to TypeScript
    - o Integrates with QuickBooks, Azure Boards, and Azure Active Directory using their RESTful APIs
    - o Exclusively manage DevOps and all Azure resources (App Service, SQL database, DNS zone, etc.)
  - ➤ **"Enterprise resource planning" data migrator**   **Roslyn, Hangfire**   **2017 – 2018**
    - o Led training sessions with client's team of 4 in best technical practices
    - o Added dynamic migration rules at runtime using Roslyn code generation with correctness safeguards
    - o Code may be added/deleted at runtime (e.g. decorators with multiple open generics) via plug-ins
    - o Exclusively managed DevOps, CI/CD, and added ClickOnce deployment for legacy apps
  - ➤ **Kanban board system**   **AngularJS**   **2016**
    - o MVP released on time with only 3 bugs in first 3 months of use
  - ➤ **Enterprise asset management system**   **WPF, SQLite**   **2015 – 2017**
    - o Worked remotely on a team of 10+ implementing MSSQL/SQLite synching
  - ➤ **Cross platform graphing calculator**   **Xamarin Forms**   **2014 – 2015**
    - o Added anisotropic scaling, ad support, navbar, transparent graphics (led to PR on a large library), etc.

Lead Developer – OneHipMom.com   **MySQL, HTML, CSS, PHP, Prestashop**   **2012 – 2015**

SOLO PROJECTS

Spaced repetition system at github.com/dharmaturtle/cardoverflow   **F#, Blazor**   **2019 – Now**

- Emphasizes social proof and collaboration – i.e., "StackOverflow for flashcards"
- 82% test coverage – optimized so tests complete in 30-45 seconds despite each test creating its own database
- Independently learned Blazor/F# and persuaded Blocher Consulting's Director of Quality to try F# on a client project where it became the dominant language

Machine Learning   **TensorFlow, PyTorch**   **2017 – 2019**

- Scored 97% on Kaggle's Plant Seedlings Classification and solved OpenAI's CartPole and MountainCar via DQN

Twitch Chat AutoModerator at github.com/destinygg/bot2   **C#, Python, Ruby, MySQL**   **2011 – 2017**

- Detected spam, used actor model for speed/scale, and had a W3C valid site with searchable chat logs & statistics
- Exceptionally successful, replacing all (7) other human moderators on a channel with 20,000+ unique visitors

ADDITIONAL BACKGROUND

University of Illinois at Urbana-Champaign – B.S. in Material Science and Engineering   **2013**

- Received an A in every math class (Calculus I, II, & III, Diff. Eq., Linear Algebra, Statistics/Data Analysis)   **3.6 GPA**

Microsoft Certified Professional, native English and Vietnamese speaker, skilled in 3ds Max, AutoCAD, Illustrator, Photoshop