Kenneth (Page) Swanson

Lives in New Haven, CT E-mail kpswanson@gatech.edu GitHub pageswanson Website pageswanson.github.io/homepage

Education

Georgia Institute of Technology

05 / 2017 **B.S. Computer Engineering**, GPA: 3.5 / 4.0

Experience

Full-stack Software Engineer / Abrigo - Remote

Develops applications for large data transfer alongside a team of 9 full-stack engineers and product managers to enable a pipeline with applications using C# targetting .NET Standard. Provides hourly support for client-facing project managers, responding to service requirements for over a thousand financial institutions across the US. Delivers features in an Agile framework on a bi-weekly sprint schedule to release tested updates on a regular cycle. Part of a frontend initiative to introduce code share opportunities across teams, packaging/build process improvements, a contemporary frontend workflow, and wider internal adoption of the Vue.js framework. Scaled a document import service as a way of onboarding client image repositories with existing financials. Reworked to incorporate existing NHibernate respository layer for import transactions, unit tests with Moq, task logging with line-item feedback. Added an avenue for distributing internal documents across customer libraries for rapid internal document transfer. Engineered a guided walkthrough by learning component architectures in AngularJS to setup a modular onboarding interface. Included widgets for parsing initial extracts to generate mappings, check data integrity, and poll services to suggest configuration improvements. Enabled a subscription pathway with greater agency for the financial institution. Inspired new workflows in other parts of the product inheriting this modularity. Built a logs view for historical detail on imports and transfers. Revealed previously inaccessible reporting for improved client support, enabled user-led problem solving. Recent optimizations include improvements to lookup SQL performance with table normalization and scheduled data consolidation approach.

Software Developer in Residence / NHFPL - New Haven, Ct

05 / 2020 → Present

Serves as a community reference for software development resources and learning tools. Leads sessions on a bi-weekly basis with introductions to core web technologies as an entry point to learning code. Offers weekly individual help sessions as office hours for aid in coding of all kinds. Leads an app building series teaching newcomers about the development landscape and web technologies targetting mobile devices.

Programming Systems Teaching Assistant / Georgia Institute of Technology - Atlanta, Ga

Product & Test Engineering Intern / Texas Instruments - Dallas, Tx

Projects

TOVA - A Responsive Musical Synthesizer

Sub 1 Kbps Speech Coder

03 / 2017 → 04 / 2017 Implemented a 996 bps speech coder in MATLAB while maintaining intelligible speech and speaker fingerprint. Constructed architecture with elements of LPC, codebook vector quantization and pulse excitation in MELP.

Interests

Sound synthesis, Mixing and recording techniques, Obsolete drum machines, Web technologies, Teaching and demonstration, Electronic literature, Exciting and difficult music, Recorded performance