

Objective

Build high value software in a smart, passionate, caring team, hopefully earning good money.

Skills

Proficiency sample in parenthesis where possible.

Programming Languages

- JavaScript (know good and bad parts, prefer Ramda to underscore)
- TypeScript (+DefinitelyTyped, I generally prefer static to dynamic typing))
- Flow (+flowtyped)
- Elm (version that had signals)
- Reason ML/Ocaml (know what polymorphic variants and type constraints are)
- C# (co- and contra- variance, oldie-but-goodie <https://vimeo.com/44287613>)
- F#
- Python 2.7
- SQL (T- and PL/ dialects)
- HTML/CSS (I am not a big specialist in CSS)

Concepts

- Client side architectures (Flux, Redux, unidirectional data flow, MVVM etc)
- Tactical DDD (no strategic DDD and CQRS)
- OOD/OOP, SOLID
- FP (`Ma -> (a->Mb) -> Mb`)
- ORM
- Fast (Unit) and slow (integration, acceptance) testing

Frameworks and Technologies

- **JavaScript:** Of probable interest: Angular, React, Knockout.js, Jest, Jasmine, jQuery, underscore.js,
- **.NET:** Castle Windsor, NHibernate, Entity Framework, ADO.NET, ASP.NET MVC, ASP.NET WebApi, WCF, LINQ, TPL, NUnit, Moq, PDFBox
- **Nodejs**Express
- **Databases:** Firebase, MongoDB, BigQuery, SQL Server 2005/2008/2012, Oracle 11g, T-SQL, PL/SQL, SQL Server Reporting Services.
- **VCS:** Git, Mercurial
- **Operations:** Kubernetes+Helm, GCP - GKE, BigQuery, AppEngine, AWS - SQS, S3, Prometheus
- **SDLC tools:** Travis, CircleCI, Jira, TeamCity, Jenkins

Employment

2016 - present, Senior Engineer, Pear Deck, Iowa City, IA

Full stack development and operations. I did a lot of stuff :).

As a part of a team did full cycle of product development - from UX design to implementation to ongoing support.

Was responsible for delivering features, keeping product up and running and bringing up new developer team as a part of a team that did full cycle of product development - from UX design to implementation to ongoing support. Implement backends running on GKE using JavaScript, Node, Java, Python. Implement frontends in Javascript, Angular, Elm, Reason ML+React.

Provided product/UX design ideas, suggestions and feedback.

Tested automatically (Jest, Selenium, unit, integration and acceptance tests) and manually.

Made new developers productive and helped them with doing right things for company, team and themselves. Reviewed PRs, provided help and suggestions.

Wrote deployment procedures, k8s configurations (including automatic load balancing), configured GCP. Monitored application up-time and performance, detected and fixed application and infrastructure problems.

2012 - 2016, Senior Application Developer, University of Iowa, Iowa City, IA

Worked on small to medium size solutions for different University of Iowa departments, including batch processes for variable printing, managing reviews of driver licenses for University of Iowa drivers, mini-insurance system for managing claims for University of Iowa auto and real estate incidents, University wide travel and procurement expense management system (rewrite from ColdFusion to .NET).

Worked on building a professional software development team, setting up processes, establishing shared vision, creating and maintaining standard operating procedures (SOP), supervised other developers.

Talked to customers, understood their problems, proposed and discussed solutions. Wrote specs, created UI wireframes and project estimates. Generally, made things go forward.

Wrote front-ends in Angular, Knockout, jQuery, Telerik web controls using Bootstrap, AngularStrap (the mess of technologies is the result of having to support many systems including very old ones)

Wrote DDD-ish back-ends (domain model, repos, services, aggregate roots, domain events) in C#, LINQ for SQL, SQL, EF going against SQL Server and Oracle. All components wired together using IoC container (Windsor). From no coverage to full coverage by fast (unit) and slow (integration) tests.

Wrote installation (Desired State Configuration), deployment (we had our own Octopus-like deployment service) scripts, created a configuration management DSL that was used to create queryable infrastructure model. Automated existing processes, created utilities for Active Directory, Confluence, TeamCity, Sql Server and Oracle.

Implemented shared between projects library of components to codify best practices (for front-end as well as for back-end). Made efforts to introduce policies regarding code sharing and continuous integration/deployment. Persisted in establishing team protocols (e.g. "Ask for help", "Check in", "Double-check", "Shared vision")

Wrote SSRS reports, wrote a rdl report formatter that allowed to define SSRS object styles using selectors and definitions (stylesheets for RDL), made data analysis tools using F#.

Wrote acceptance tests using home-grown WebDriver based framework that allowed to separate logical and physical concepts. Wrote test plans for manual testing and did that testing myself.

Made presentations and organized seminars to teach colleagues about modern tools and methods. Set up student and staff code reviews, actively provided feedback and challenges for students working for department.

Installed and maintained TeamCity, Jenkins and Rhodocode installations, administered Windows production and test servers.

1995 - 2012, Not sure what, maybe main guy in engineering, MetaCommunications Inc., Iowa City, IA

Whatever was necessary. Did a lot of stuff including product design and implementation (C++, C#, SQL, a lot of JavaScript), product implementation on customer sites, marketing, testing (automated and manual), office and personnel management.

References

- Valerij Petrulevich, University of Iowa Financial And Business Information Systems, vpetrulevich@uiowa.edu
- Joel Jeddelloh, Senior Software Engineer, joel@peardeck.com
- Dan Sweeney, VP of Product, dan@peardeck.com