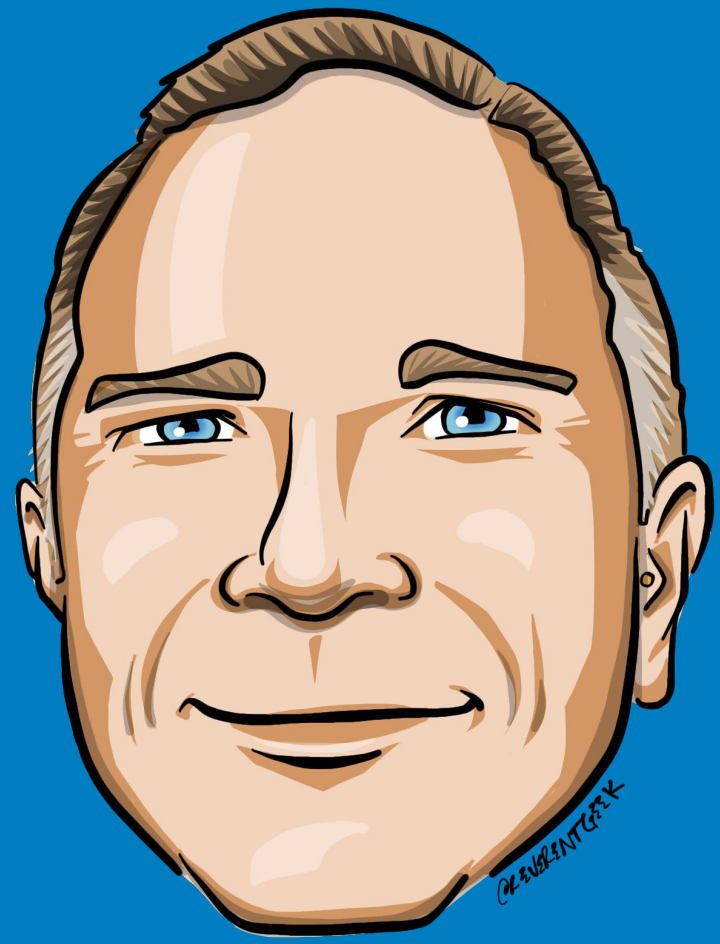
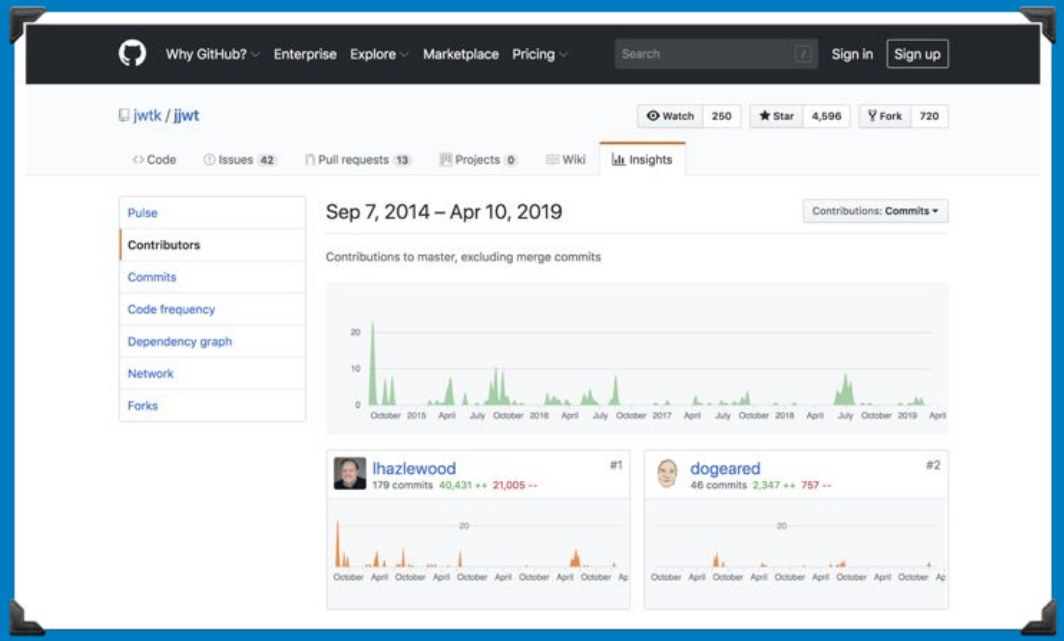
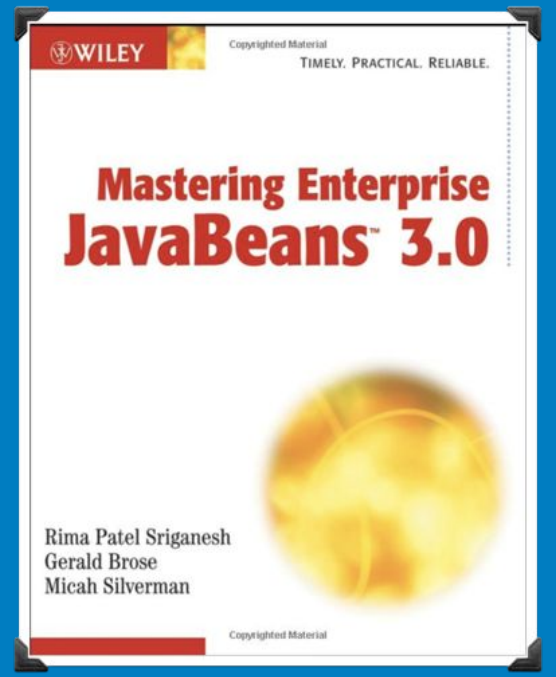
# Vue.js & Spring Boot
## (Modern SPAs Made Easy)

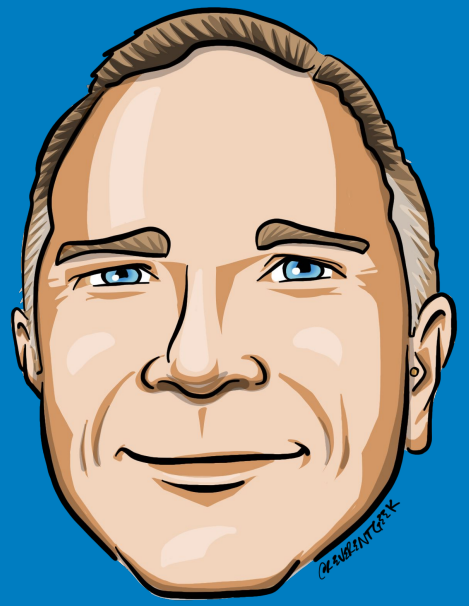
MICAH SILVERMAN
Senior Security H@X0R
@afitnerd
@oktadev

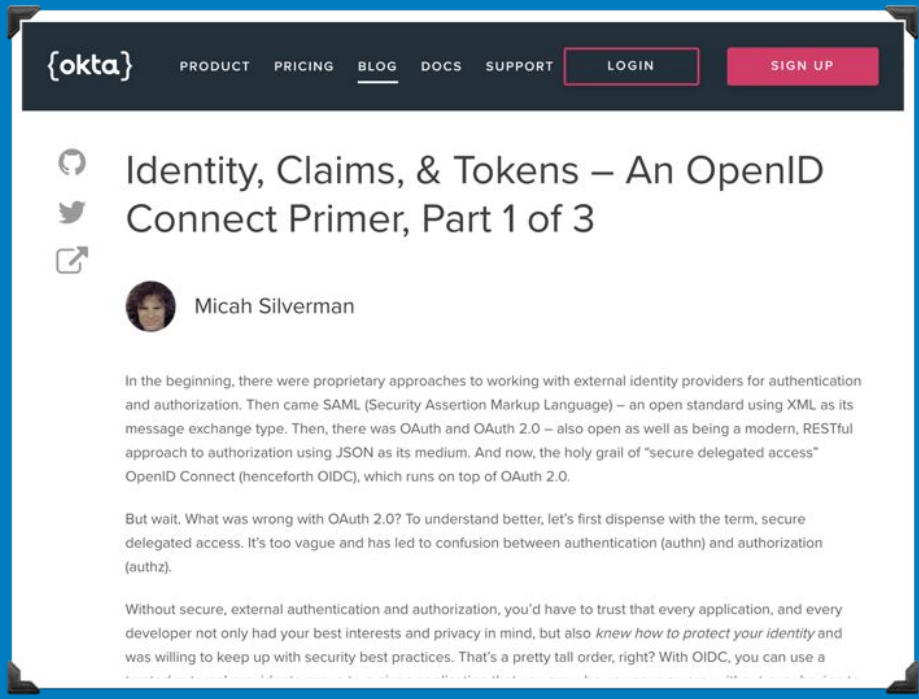




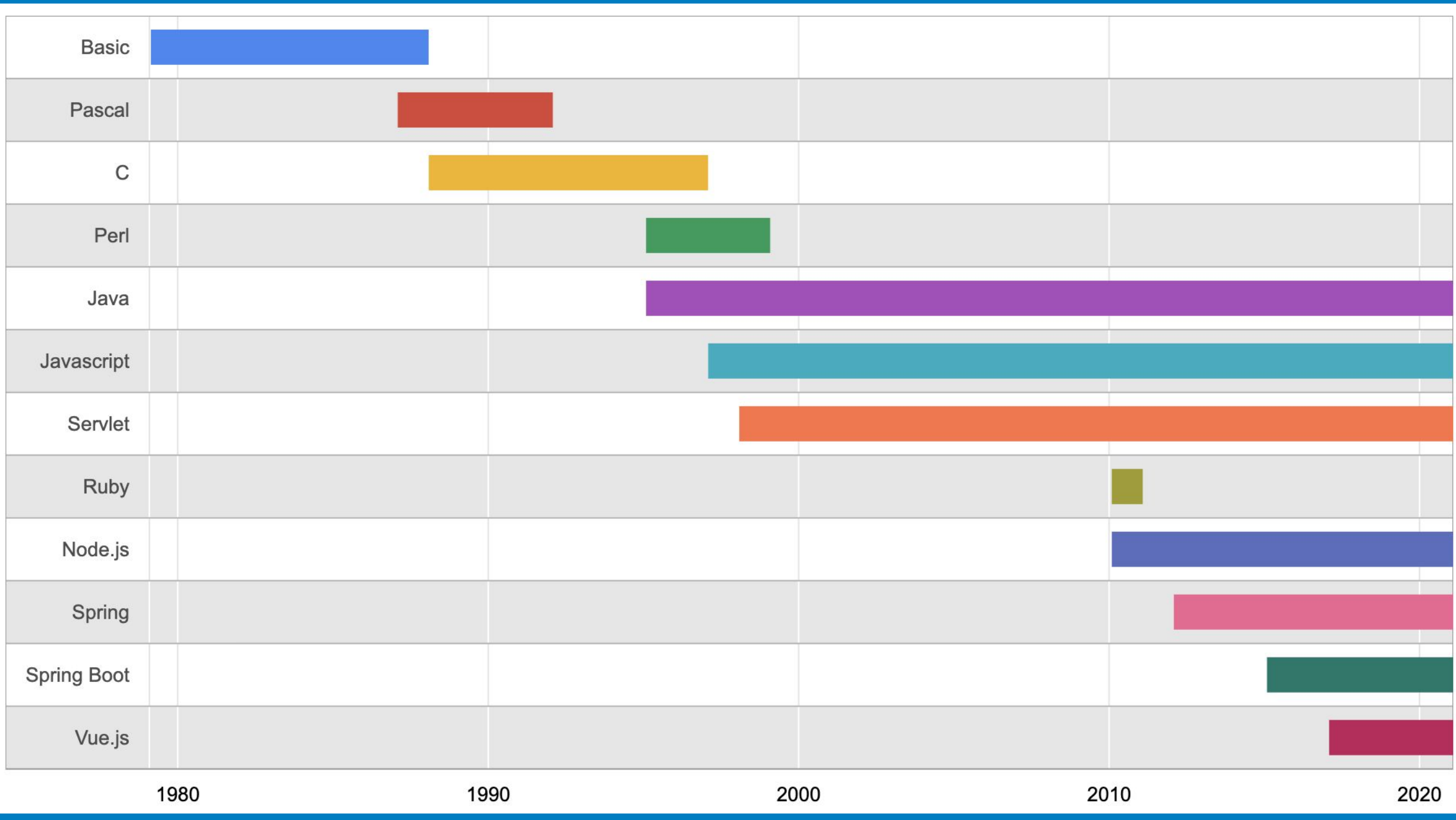

https://github.com/jwtk/jjwt






https://bit.ly/OIDCPrimer

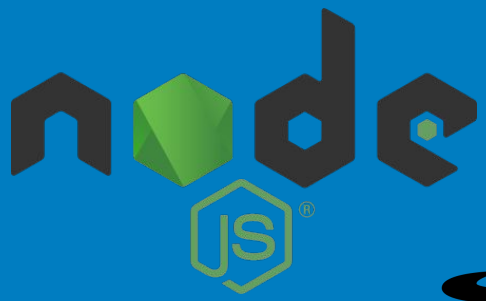

Basic
Pascal
C
Perl
Java
Javascript
Servlet
Ruby
Node.js
Spring
Spring Boot
Vue.js
1980
1990
2000
2010
2020

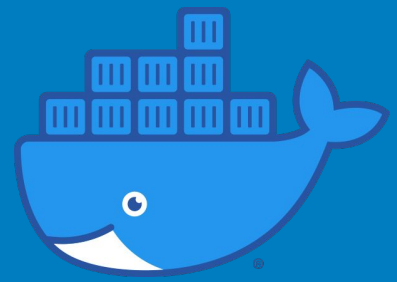
# Agenda

- 05 min - Intro
- 05 min - Spring Boot: progress api
- 10 min - Vue.js: First pass
- 10 min - JHipster with Vue.js
- 05 min - JHipster: progress api
- 05 min - Components are better
- 05 min - Security upgrade
- 05 min - Conclusion and Q&A

# Tech

| | |
|---|---|
| Node.js | v12.16 |
| Java | v1.8 |
| Spring Boot | v2.2 |
| @vue/cli | v4.2 |
| JHipster | v6.7 |
| Docker | v2.2 |
| Heroku CLI | v7.38 |





# Spring Boot in 5 Minutes

```
curl https://start.spring.io/starter.tgz \
  -d dependencies=web \
  -d baseDir=progress-api \
  -d groupId=com.afitnerd \
  -d artifactId=progress-api \
  -d name=progress-api \
  -d packageName=com.afitnerd.progress-api \
  -d type=maven-project \
  -d bootVersion-2.2.4.RELEASE \
  -o progress-api.tgz
```

# Vue.js - First Pass

- npm install -g `@vue/cli`
- npm install -g `@vue/cli-service`
- Create project with TypeScript
- npm install `bootstrap-vue axios --save`

# Vue.js - Make an API call

- axios uses Promises
- axios can call the Spring Boot backend
- need to deal with CORS

# Vue.js - BootstrapVue

- Bootstrap - responsive web apps
- Easy to use layout system
- Many built-in components
- Great for backend dwellers

# JHipster - Bring it all under one roof

“JHipster is a free and open-source application generator used to quickly develop modern web applications”

- `npm install -g generator-jhipster generator-jhipster-vue`
- Vue.js
- Spring Boot
- Maven
- OAuth 2.0

# OAuth 2.0 with Okta

- Provision Okta Org
- Create OAuth 2.0 App
- Provisioning made easy with heroku
- Update application.yml

# What’s left to talk about

- Vuex - state management
- JPA - Java Persistence API
- JSR 107 - Cache
- Deployment - Have you tried Heroku?

Micah Silverman
@afitnerd

oauth.com
@oktadev

Free hosted authorization server:
**developer.okta.com**