

Hotspotter

DYLAN WILLIAMS

SPENCER SMITH

NATHAN REINHARDT

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Our Team

Dylan Williams: Quality Assurance Manager

Spencer Smith: Customer Proxy

Nathan Reinhardt: Scrum Master

Our Client

Dr. Igor Crk:
Southern Illinois University Edwardsville
Department of Computer Science
Edwardsville, IL 62026-1656

BA in Mathematics from Carthage College

Doctorates in Computer Science from University of Arizona

Domain and Business

Developers

- Tracking bug-fixing commits
- Testing code before pulling into project master

Project Managers

- Assigning troublesome tasks to more experienced developers

Open Source Contributors

- Looking to contribute code to most relevant portions of the codebase

Core functionality

Scans repositories finding bug hotspots using dynamic metric

- Run from remote server

Provide centralized database to store scan results and repository

- Automatic repository syncing
- Scan result history

Create visualization of repository with heat map

- Filter repository heat map based on author, file, etc.

Specific Requirements

No specific software requirements

Requirements levied on algorithm

- Visual and text data output
- Proof-of-concept analysis
- Well-commented source code

Client/Server Architecture

Risks

New technologies

- Design/Teaching sessions with examples

Agile Process

- Collaboration with retrospectives to assess what's working for us and what's not

Research Based Project

- Work very closely with client to hash out many unknown specifications
- Weekly meetings with pre-meeting email updates

Quality Management

Code review upon pull request

- Passes Tests
- Readability
- Sufficiently Commented

Staying on Target

- Follows Project Specification
- Client Feedback

Compare Performance to Similar Products

- Speed
- Accuracy
- Usability

Questions?