

```
package main
```

```
import (  
    "encoding/json"  
    "fmt"  
    "strings"  
    "time"  
)
```

```
// N.B. Run me; I'm a valid Go program! - schultz
```

```
func main() {  
    candidate := Candidate{  
        Name: "Matt Schultz",  
        Email: "schultz@sent.com",  
        Phone: "512.626.0186",  
  
        Experience: []Position{  
            {  
                Company: "Colossal Biosciences",  
                Title: "Principal Engineer",  
                Start: *parseTime("2021-Jul"),  
                Description: stripWhitespace(`  
                    Worked with biologists and geneticists to develop software tools used  
                    in an effort to repopulate extinct and near-extinct species.  
                `),  
            },  
            {  
                Company: "HMBradley",  
                Title: "Principal Engineer",  
                Start: *parseTime("2020-Nov"),  
                End: parseTime("2021-May"),  
                Description: stripWhitespace(`  
                    Developed and maintained APIs that power consumer banking offerings.  
                    Spearheaded machine learning and data science operations.  
                `),  
            },  
            {  
                Company: "Cloudflare",  
                Title: "Systems Engineer",  
                Start: *parseTime("2020-Nov"),  
                End: parseTime("2020-May"),  
                Description: stripWhitespace(`  
                    One of two engineers who developed and supported a consumer API with an  
                    active userbase of over 25 million.  
                `),  
            },  
            {  
                Company: "LivePerson",  
                Title: "Principal SDE",  
                Start: *parseTime("2018-Oct"),  
                End: parseTime("2020-Feb"),  
                Description: stripWhitespace(`  
                    Designed and developed a NLP abstraction service and helped to lead the  
                    company's social media management offering.  
                `),  
            },  
        }  
    }  
}
```

```

    Company: "Conversable",
    Title: "Principal Software Engineer",
    Start: *parseTime("2016-May"),
    End: parseTime("2018-Oct"),
    Description: stripWhitespace(`
        Largely focused on development and deployment of an NLP pipeline used
        by chatbots for several major brands. Acquired by LivePerson.
    `),
},
{
    Company: "Bee Cave Games",
    Title: "Principal Software Engineer",
    Start: *parseTime("2013-Jun"),
    End: parseTime("2016-May"),
    Description: stripWhitespace(`
        Developed blackjack, slots, and bingo games which operated with both
        virtual and real currency.
    `),
},
{
    Company: "Toutpost (now Cratejoy)",
    Title: "Co-Founder, Principal Engineer",
    Start: *parseTime("2012-Oct"),
    End: parseTime("2013-Jun"),
    Description: stripWhitespace(`
        Launched a YCombinator-funded consumer startup focused on consumer
        review analysis.
    `),
},
{
    Company: "Zynga",
    Title: "Senior Software Engineer, Systems Lead",
    Start: *parseTime("2011-Aug"),
    End: parseTime("2012-Oct"),
    Description: stripWhitespace(`
        Led server and systems development for multiple popular Zynga casino
        games.
    `),
},
{
    Company: "8-Bit Spaceman",
    Title: "Co-Founder, CTO",
    Start: *parseTime("2010-Sep"),
    End: parseTime("2011-Aug"),
    Description: stripWhitespace(`
        Built web games in Flash and Java for distribution on Facebook's game
        platform.
    `),
},
    // Further experience is available upon request.
},
}

output, err := json.MarshalIndent(candidate, "", " ")
if err != nil {
    panic(fmt.Sprintf("problem marshaling JSON: %s", err))
}

```

```

    fmt.Println(string(output))
}

// parseTime allows for the creation of Time objects from a legible string.
func parseTime(input string) *time.Time {
    t, err := time.Parse("2006-Jan", input)
    if err != nil {
        panic(fmt.Sprintf("problem parsing time (%s): %s", input, err))
    }
    return &t
}

// stripWhitespace removes tabs, newlines, leading, and trailing whitespace from a string.
func stripWhitespace(input string) string {
    return strings.TrimSpace(
        strings.ReplaceAll(
            strings.ReplaceAll(
                input,
                "\t",
                "",
            ),
            "\n",
            " ",
        ),
    )
}

// Candidate describes necessary information about a job candidate.
type Candidate struct {
    Name      string    `json:"name"`
    Email     string    `json:"email"`
    Phone     string    `json:"phone"`
    Experience []Position `json:"experience"`
}

// Position represents current or previous professional experience.
type Position struct {
    Company     string    `json:"company"`
    Title       string    `json:"title"`
    Start       time.Time `json:"start"`
    End         *time.Time `json:"end,omitempty"`
    Description string    `json:"description"`
}

```